

Table 13 - continued

Organ weights
Male, Female, 13w

Study No. P030097

Sex	Group and dose	Kidneys		Adrenals		Epididymides		Testes	
		(g)	(g/100 gB.W.)	(mg)	(mg/100 gB.W.)	(g)	(g/100 gB.W.)	(g)	(g/100 gB.W.)
Male	Control	N	10	10	10	10	10	10	10
		Mean	3.30	0.62	57.1	10.8	1.39	3.46	0.65
		S.D.	±0.28	±0.04	±7.0	±1.5	±0.14	±0.28	±0.07
	0.1 mg/kg	N	10	10	10	10	10	10	10
		Mean	3.49	0.62	61.0	10.8	1.39	3.47	0.62
	0.5 mg/kg	N	10	10	10	10	1.24*	3.31	10
	Control	Mean	3.64	0.67	58.0	10.7	1.24*	3.31	10
		S.D.	±0.29	±0.06	±3.9	±0.8	±0.08	±0.39	±0.06
		N	9	9	9	9	9	9	9
	2.5 mg/kg	Mean	3.16	0.70*	50.5*	11.2	1.27	3.65	0.81**
		S.D.	±0.45	±0.07	±5.3	±1.1	±0.11	±0.16	±0.07
	0.5 mg/kg	N	10	10	10	10	21.8		
Female	Control	Mean	2.12	0.70	66.0	21.8			
		S.D.	±0.72	±0.25	±7.8	±2.6			
		N	10	10	10	10			
	0.5 mg/kg	Mean	1.93	0.64	66.5	22.1			
		S.D.	±0.29	±0.07	±6.4	±2.4			
	2.5 mg/kg	N	10	10	10	10			
	Control	Mean	1.89	0.64	64.7	21.8			
		S.D.	±0.11	±0.05	±6.1	±2.5			
		N	10	10	10	10			
	12.5 mg/kg	Mean	1.96	0.66	61.8	20.6			
		S.D.	±0.15	±0.06	±6.7	±1.6			

*: P<0.05, **: P<0.01 (significantly different from control).
One male in the 2.5 mg/kg group died.

Table 13 - continued

Organ weights
Male, Female, 13w

Study No. P030097

Sex	Group and dose	Ovaries		Uterus	
		(mg)	(mg/100 gB. W.)	(g)	(g/100 gB. W.)
Male	Control	N			
		Mean			
		S.D.			
	0.1 mg/kg	N			
		Mean			
		S.D.			
	0.5 mg/kg	N			
		Mean			
		S.D.			
	2.5 mg/kg	N			
		Mean			
		S.D.			
Female	Control	N	10	10	10
		Mean	78.5	26.1	0.58
		S.D.	±7.8	±4.0	±0.09
	0.5 mg/kg	N	10	10	10
		Mean	79.8	26.5	0.65
		S.D.	±8.9	±3.2	±0.08
	2.5 mg/kg	N	10	10	10
		Mean	79.3	26.9	0.56
		S.D.	±11.9	±4.6	±0.06
	12.5 mg/kg	N	10	10	10
		Mean	80.4	27.0	0.63
		S.D.	±10.9	±4.0	±0.08

Not significantly different from control.

Table 14 Organ weights
Male, Female, 52w

Study No. P030097

Sex	Group and dose	Final body weight	Brain		Pituitary		Thyroids		Heart		
			(g)	(g)	(g/100 gB.W.)	(mg)	(mg/100 gB.W.)	(mg)	(mg/100 gB.W.)	(g)	(g/100 gB.W.)
Male	Control	N	10	10	10	10	10	10	10	10	10
		Mean	819.9	2.41	0.30	15.8	2.0	31.5	3.8	1.89	0.23
	0.1 mg/kg	N	8	8	8	8	8	8	8	8	8
		Mean	792.5	2.41	0.31	15.7	2.0	31.4	3.9	1.93	0.25
	0.5 mg/kg	N	10	10	10	10	10	10	10	10	10
		Mean	842.4	2.41	0.29	16.2	1.9	34.0	4.1	2.05	0.25
Female	Control	N	10	10	10	10	10	10	10	10	10
		Mean	423.2	2.17	0.54	27.9	6.6	24.0	5.7	1.15	0.28
	0.5 mg/kg	N	10	10	10	10	10	10	10	10	10
		Mean	441.8	2.20	0.51	30.9	7.0	24.6	5.5	1.23	0.28
	2.5 mg/kg	N	10	10	10	10	10	10	10	10	10
		Mean	481.0	2.16	0.47	32.8	7.1	27.6	5.9	1.23	0.26
102	12.5 mg/kg	N	9	9	9	9	9	9	9	9	9
		Mean	425.8	2.17	0.52	30.5	7.4	26.5	6.4	1.24	0.29
133		S.D.	±71.4	±0.07	±0.08	±9.9	±2.4	±4.1	±1.4	±0.09	±0.03

*: P<0.05, **: P<0.01 (significantly different from control).
Two males in the 0.1 mg/kg group and one female in the 12.5 mg/kg group died.

Table 14 - continued

Organ weights
Male, Female, 52w

Study No. P030097

Sex	Group and dose	Lungs		Thymus		Liver		Spleen	
		(g)	(g/100 gB.W.)	(g)	(g/100 gB.W.)	(g)	(g/100 gB.W.)	(g)	(g/100 gB.W.)
Male	Control	N	10	10	10	10	10	10	10
		Mean	1.88	0.23	0.08	0.01	18.35	0.99	0.12
		S.D.	±0.16	±0.02	±0.02	±0.00	±4.61	±0.25	±0.02
	0.1 mg/kg	N	8	8	8	8	8	8	8
		Mean	1.86	0.24	0.08	0.01	17.79	0.96	0.13
		S.D.	±0.05	±0.05	±0.03	±0.00	±2.65	±0.20	±0.03
	0.5 mg/kg	N	10	10	10	10	10	10	10
		Mean	1.88	0.23	0.07	0.01	24.85**	1.06	0.13
		S.D.	±0.22	±0.02	±0.02	±0.00	±5.23	±0.47	±0.03
	2.5 mg/kg	N	10	10	10	10	10	10	10
		Mean	1.79	0.29**	0.09	0.01	25.09**	0.89	0.15
		S.D.	±0.16	±0.03	±0.02	±0.00	±3.69	±0.62	±0.02
Female	Control	N	10	10	10	10	10	10	10
		Mean	1.34	0.33	0.09	0.02	10.55	0.62	0.15
		S.D.	±0.17	±0.07	±0.03	±0.01	±3.14	±0.39	±0.02
	0.5 mg/kg	N	10	10	10	10	10	10	10
		Mean	1.29	0.30	0.10	0.02	10.70	0.60	0.14
		S.D.	±0.12	±0.05	±0.03	±0.01	±2.03	±0.14	±0.02
	2.5 mg/kg	N	10	10	10	10	10	10	10
		Mean	1.35	0.29	0.10	0.02	11.66	0.62	0.13
		S.D.	±0.12	±0.07	±0.02	±0.00	±2.41	±0.32	±0.03
	12.5 mg/kg	N	9	9	9	9	9	9	9
		Mean	1.33	0.32	0.09	0.02	15.04**	0.60	0.14
		S.D.	±0.08	±0.05	±0.02	±0.01	±2.96	±0.41	±0.02

**: P<0.01 (significantly different from control).

Two males in the 0.1 mg/kg group and one female in the 12.5 mg/kg group died.

Table 14 - continued

Organ weights
Male, Female, 52w

Study No. P030097

Sex	Group and dose	Kidneys		Adrenals		Epididymides		Testes	
		(g)	(g/100 gB.W.)	(mg)	(mg/100 gB.W.)	(g)	(g/100 gB.W.)	(g)	(g/100 gB.W.)
Male	Control	N	10	10	10	10	10	10	10
		Mean	3.78	0.47	63.7	7.9	1.30	0.16	3.60
		S.D.	±0.50	±0.05	±8.7	±1.2	±0.10	±0.03	±0.33
	0.1 mg/kg	N	8	8	8	8	8	8	8
		Mean	3.76	0.48	61.6	8.0	1.35	0.18	3.61
		S.D.	±0.46	±0.08	±8.3	±1.9	±0.08	±0.04	±0.36
	0.5 mg/kg	N	10	10	10	10	10	10	10
		Mean	4.29	0.51	60.9	7.3	1.37	0.17	3.78
		S.D.	±0.63	±0.06	±10.9	±1.1	±0.13	±0.02	±0.31
	2.5 mg/kg	N	10	10	10	10	10	10	10
		Mean	4.12	0.68**	55.6	9.1	1.28	0.22*	3.65
		S.D.	±0.40	±0.09	±8.8	±0.9	±0.26	±0.06	±0.73
Female	Control	N	10	10	10	10	10	10	10
		Mean	2.29	0.55	76.3	18.4			
		S.D.	±0.43	±0.08	±16.8	±4.0			
	0.5 mg/kg	N	10	10	10	10	10	10	10
		Mean	2.35	0.54	79.6	18.0			
		S.D.	±0.33	±0.06	±25.3	±4.7			
	2.5 mg/kg	N	10	10	10	10	10	10	10
		Mean	2.39	0.52	81.2	17.6			
		S.D.	±0.29	±0.13	±32.9	±8.1			
	12.5 mg/kg	N	9	9	9	9	9	9	9
		Mean	2.63	0.63	73.9	17.7			
		S.D.	±0.26	±0.09	±10.2	±3.4			

*: P<0.05, **: P<0.01 (significantly different from control).
 Two males in the 0.1 mg/kg group and one female in the 12.5 mg/kg group died.

Table 14 - continued Organ weights
Male, Female, 52w

Study No. P030097

Sex	Group and dose	Ovaries		Uterus	
		(mg)	(mg/100 gB. W.)	(g)	(g/100 gB. W.)
Male	Control	N			
		Mean			
		S.D.			
	0.1 mg/kg	N			
		Mean			
		S.D.			
	0.5 mg/kg	N			
		Mean			
		S.D.			
	2.5 mg/kg	N			
		Mean			
		S.D.			
Female	Control	N	10	10	10
		Mean	67.0	16.0	0.97
		S.D.	±17.0	±3.3	±0.25
					±0.08
	0.5 mg/kg	N	10	10	10
		Mean	62.2	14.3	0.96
		S.D.	±17.5	±4.4	±0.24
					±0.06
	2.5 mg/kg	N	10	10	10
		Mean	64.5	13.5	0.97
		S.D.	±32.6	±5.5	±0.26
					±0.09
	12.5 mg/kg	N	8	8	9
		Mean	60.9	14.3	1.03
		S.D.	±18.2	±2.5	±0.22
					±0.08

Not significantly different from control.

One female in the 12.5 mg/kg group died.

The ovaries in one female in the 12.5 mg/kg group were not weighed due to the dilatation of paraovarian bursa, prevents obtaining the actual ovary weights.

Table 15 Histopathological findings
Male, Female, 13w

Study No.P030097

**: P<0.01 (significantly different from control).
Grade sign: -, none; +, mild; ++, moderate; +++, marked
NR: no remarkable changes.

NR: no remarkable change.

1) with eosinophilic granular cytoplasm

Figures in parentheses are number of animals with tissues examined.

One male in the 2.5 mg/kg group died.

One male in the 2.5 mg/kg group died.

Table 15 - continued

Histopathological findings
Male, Female, 18w

Study No. P030097

Organs and findings	Sex Group and dose Number of animals	Male															
		Control				0.1 mg/kg				0.5 mg/kg							
		10		10		10		10		10		9					
		-	+	++	+++	Total	-	+	++	+++	Total	-	+	++	+++	Total	
Hematopoietic system																	
Spleen																	
Bone marrow (sternum)																	
Bone marrow (femur)																	
Cardiovascular system																	
Heart																	
Cellular infiltration, mononuclear cell		8	2	(10)	0	0	2		(0)		(0)		5	4	(9)	0	4
Aorta																	
Urinary system																	
Kidney																	
Tubule, basophilic																	
Cast, proteinaceous																	
Cellular infiltration, pelvis, neutrophil																	
Mineralization, corticomedullary																	
Nephroblastoma																	
Urinary bladder																	
Genital system																	
Testis																	
Epididymis																	
Prostate																	
Cellular infiltration, mononuclear cell																	
Seminal vesicle		8	2	0	0	2											
Ovary																	
Uterus																	
Vagina																	
Mammary gland																	
Endocrine system																	
Pituitary																	
Thyroid																	
Remnant, ultimobranchial body																	
		10	0	0	0	0											

Not significantly different from control.

Grade sign: -, none; +, mild(existent of tumor); ++, moderate; +++, marked.

NR: no remarkable changes.

NA: not applicable.

Figures in parentheses are number of animals with tissues examined histopathologically.
One male in the 2.5 mg/kg group died.

Table 15 - continued

Histopathological findings
Male, Female, 13w

Study No. P030097

Organs and findings	Sex Group and dose Number of animals	Male														
		Control				0.1 mg/kg				0.5 mg/kg						
		10		10		10		10		9						
		-	+	++	+++	Total	-	+	++	+++	Total	-	+	++	+++	Total
Endocrine system																
Parathyroid																
Adrenal																
Hypertrophy, cortical cell, focal																
Nervous system																
Cerebrum																
Dilatation, lateral ventricle																
Cerebellum																
Medulla oblongata																
Spinal cord																
Optic nerve																
Sciatic nerve																
Special sense organs																
Eye																
Harderian gland																
Musculoskeletal system																
M. biceps femoris																
Sternum																
Femur																
Integumentary system																
Integument																

Not significantly different from control.

Grade sign: -, none; +, mild; ++, moderate; +++, marked.

NR: no remarkable changes.

Figures in parentheses are number of animals with tissues examined histopathologically.

One male in the 2.5 mg/kg group died.

Table 15 - continued

Histopathological findings
Male, Female, 13w

Study No. P030097

Organs and findings	Sex Group and dose Number of animals	Female														
		Control				0.5 mg/kg				2.5 mg/kg						
		10		10		10		10		10		10				
		-	+	++	+++	Total	-	+	++	+++	Total	-	+	++	+++	Total
Digestive system																
Tongue																
Esophagus																
Fibrosis, muscular layer																
Stomach		10	0	0	0	0										
NR(10)		(10)														
Duodenum																
Jejunum																
Ileum																
Cecum																
Colon																
Rectum																
Submaxillary gland																
Sublingual gland																
Parotid gland																
Liver																
NR(10)		(10)														
Degeneration, hepatocyte, fatty, midzonal		10	0	0	0	0										
Degeneration, hepatocyte, fatty, periporial		9	1	0	0	1										
Necrosis, hepatocyte, focal		10	0	0	0	0										
Hypertrophy, hepatocyte ¹⁾ , centrilobular		10	0	0	0	0										
Cellular infiltration, mononuclear cell		7	3	0	0	3										
Pancreas																
NR(10)		(10)														
Atrophy, acinus, focal		9	1	0	0	1										
Respiratory system																
Trachea																
Lung																
NR(10)		(10)														
Accumulation, foam cell, alveolus		9	1	0	0	1										
Mineralization, artery		9	1	0	0	1										
Hematopoietic system																
Thymus																
NR(10)		(10)														
Hemorrhage																
Submaxillary lymph node		9	1	0	0	1										
Mesenteric lymph node																
NR(10)		(10)														
NR(10)		(10)														

**: P<0.01 (significantly different from control).

Grade sign: -, none; +, mild; ++, moderate; +++, marked.

NR: no remarkable changes.

1) with eosinophilic granular cytoplasm.

Figures in parentheses are number of animals with tissues examined histopathologically.

Table 15 - continued

Histopathological findings
Male, Female, 13w

Study No.P030097

Not significantly different from control.

Grade sign: -, none; +, mild(existent of tumor); ++, moderate; +++, marked.
N.R.: no remarkable changes.

NR: no remarkable changes.

NA; not applicable.

Figures in parentheses are number of animals with tissues examined histopathologically.

Table 15 - continued

Histopathological findings
Male, Female, 13w

Study No. P030097

Organs and findings	Sex Group and dose	Female															
		Control				0.5 mg/kg				2.5 mg/kg				12.5 mg/kg			
		Number of animals		-	+	++	+++	Total	-	+	++	+++	Total	-	+	++	+++
Endocrine system																	
Parathyroid																	
Adrenal																	
Hyper trophy, cortical cell, focal																	
Nervous system																	
Cerebrum																	
Dilatation, lateral ventricle																	
Cerebellum																	
Medulla oblongata																	
Spinal cord																	
Optic nerve																	
Sciatic nerve																	
Special sense organs																	
Eye																	
Harderian gland																	
Musculoskeletal system																	
M. biceps femoris																	
Sternum																	
Femur																	
Integumentary system																	
Integument																	

Not significantly different from control.

Grade sign: -, none; +, mild; ++, moderate; +++, marked.

NR: no remarkable changes.

Figures in parentheses are number of animals with tissues examined histopathologically.



Table 16 Histopathological findings
Male, Female, 52w

Study No. P030097

Organs and findings	Number of animals	Male															
		Control				0.1 mg/kg				0.5 mg/kg				2.5 mg/kg			
		-	+	++	+++ Total	-	+	++	+++ Total	-	+	++	+++ Total	-	+	++	+++ Total
Digestive system																	
Tongue					NR(10)				(0)								
Esophagus					NR(10)				(0)								
Stomach					(10)				(0)								
Dilatation, glandular space, glandular stomach	9	1	0	0	1												
Cellular infiltration, mucosa, glandular stomach, neutrophil	10	0	0	0	0												
Duodenum					NR(10)				(0)								
Jejunum					NR(10)				(0)								
Ileum					NR(10)				(0)								
Cecum					(10)				(0)								
Fibrosis, muscular layer	10	0	0	0	0												
Colon					NR(10)				(0)								
Rectum					NR(10)				(0)								
Submaxillary gland					NR(10)				(0)								
Sublingual gland					NR(10)				(0)								
Parotid gland					(10)				(0)								
Cellular infiltration, lymphocyte	10	0	0	0	0												
Liver					(10)												
Degeneration, hepatocyte, fatty, periportal	8	1	1	0	2				8								
Degeneration, cystic					0				6	0	2	0	2	10	0	0	0
Necrosis, hepatocyte, focal	10	0	0	0	0				5	2	0	0	0	2	6	4	0
Hypertrophy, hepatocyte ¹⁾ , centrilobular	9	1	0	0	1				8	2	0	0	0	3	6	4	0
Hematopoiesis, extramedullary	10	0	0	0	0				8	3	0	0	0	3	6	4	0
Focus, altered cell, basophilic	10	0	0	0	0				7	3	0	0	0	2	7	1	0
Focus, altered cell, clear	10	0	0	0	0				10	0	0	0	0	0	10	0	0
Deposit, lipofuscin ²⁾ , hepatocyte	10	0	0	0	0				10	0	0	0	0	0	3	6	1
Angiectasis					0				10	0	0	0	0	0	4	6	0
Cellular infiltration, mononuclear cell	10	0	0	0	0				10	0	0	0	0	0	7	3	0
Adenoma, hepatocellular	8	2	0	0	2				6	2	0	0	0	2	10	0	0
	10	0	0	0	0				8	0	0	0	0	0	10	0	0

*: P<0.05, **: P<0.01 (significantly different from control).

Grade sign: -, none; +, mild(existent of tumor); ++, moderate; +++, marked.

NR: no remarkable changes.

1) with eosinophilic granular cytoplasm.

2) identified by Schmorl method, Berlin blue staining and Hall method.

Figures in parentheses are number of animals with tissues examined histopathologically.
Two males in the 0.1 mg/kg group died.

Table 16 - continued

Histopathological findings
Male, Female, 52w

Study No. P030097

Organs and findings	Sex Group and dose Number of animals	Male														
		Control				0.1 mg/kg				0.5 mg/kg						
		10		8		10		10		10		10				
		-	+	++	+++	Total	-	+	++	+++	Total	-	+	++	+++	Total
Digestive system																
Pancreas																
Atrophy, acinus, focal		10	0	0	0	(10)					(0)					
Hyperplasia, acinar cell, focal		8	2	0	0	2					(0)					
Cellular infiltration, lymphocyte		10	0	0	0	0					(0)					
Fibrosis, islet		9	1	0	0	1					(0)					
Respiratory system																
Trachea																
Cellular infiltration, lamina propria, neutrophil		10	0	0	0	(10)					(0)					
Lung																
Accumulation, foam cell, alveolus		10	0	0	0	0					(0)					
Pneumonia, aspiration		7	3	0	0	3					(0)					
Mineralization, artery		10	0	0	0	0					(0)					
Hematopoietic system																
Thymus																
Atrophy		1	8	1	0	(10)					(0)					
Submaxillary lymph node						NR(10)					(0)					
Popliteal lymph node						(1)					(0)					
Proliferation, plasma cell						0	1	0	0	1	(0)					
Mesenteric lymph node											NR(10)					
Spleen											(1)					
Thickening, capsule											0	1	0	0	1	
Hematopoiesis, extramedullary											NR(10)					
Deposit, pigment, red pulp, brown											(10)					
Bone marrow (sternum)											10	0	0	0	0	
Atrophy, focal											10	0	0	0	0	

Not significantly different from control.
Grade sign: -, none; +, mild; ++, moderate; +++, marked.

NR: no remarkable changes.

Figures in parentheses are number of animals with tissues examined histopathologically.

Two males in the 0.1 mg/kg group died.

Table 16 - continued

Histopathological findings
Male, Female, 52w.

Study No.P030097

Organs and findings	Sex Group and dose Number of animals	Male															
		Control				0.1 mg/kg				0.5 mg/kg				2.5 mg/kg			
		-	+	++	+++ Total	-	+	++	+++ Total	-	+	++	+++ Total	-	+	++	+++ Total
Hematopoietic system																	
Bone marrow (femur)					(10)												
Atrophy, focal		10	0	0	0												
Hematopoiesis, increased		9	1	0	0												
Cardiovascular system																	
Heart					(10)												
Cellular infiltration, mononuclear cell		7	3	0	0												
Fibrosis, myocardium		6	4	0	0												
Aorta					NR(10)												
Urinary system																	
Kidney					(10)												
Hyperplasia, epithelial cell, tubule		10	0	0	0												
Hyperplasia, transitional cell, pelvis		10	0	0	0												
Tubule, basophilic		6	4	0	0												
Cast, proteinaceous		6	4	0	0												
Hemorrhage, pelvis		9	1	0	0												
Cellular infiltration, mononuclear cell, pelvis		8	2	0	0												
Cellular infiltration, mononuclear cell, cortex		8	2	0	0												
Cellular infiltration, pelvis, neutrophil		9	1	0	0												
Cellular infiltration, cortex, neutrophil		10	0	0	0												
Cellular exudation, pelvic cavity, neutrophil		9	1	0	0												
Mineralization, papilla		10	0	0	0												
Mineralization, pelvis		9	1	0	0												
Urinary bladder					(10)												
Cellular infiltration, muscular layer, neutrophil		9	1	0	0												

Not significantly different from control.

Grade sign: -, none; +, mild; ++, moderate; +++, marked.

NR: no remarkable changes.

Figures in parentheses are number of animals with tissues examined histopathologically.

Two males in the 0.1 mg/kg group died.

Table 16 - continued

Histopathological findings
Male, Female, 52w

Study No.P030097

Organs and findings	Sex Group and dose Number of animals	Male															
		Control				0.1 mg/kg				0.5 mg/kg				2.5 mg/kg			
		-	+	++	+++ Total	-	+	++	+++ Total	-	+	++	+++ Total	-	+	++	+++ Total
Genital system																	
Testis																	
Atrophy, seminiferous tubule					(10)												
Hyperplasia, leydig cell, focal		10	0	0	0	0											
Epididymis																	
Decrease, sperm, lumen					(10)												
Cellular infiltration, mononuclear cell		10	0	0	0	0											
Prostate																	
Atrophy					(10)												
Hemorrhage		6	4	0	0	4											
Cellular infiltration, mononuclear cell		10	0	0	0	0											
Seminal vesicle																	
Ovary																	
Dilatation, ovarian bursa																	
Cyst																	
Uterus																	
Metaplasia, epithelial cell, gland, squamous																	
Polyp, endometrial stromal																	
Vagina																	
Degeneration, epithelium, mucous																	
Mammary gland																	
Hyperplasia, lobular					(10)												
Ectasia, alveolus/duct		10	0	0	0	0											
Adenoma		10	0	0	0	0											
Fibroadenoma		10	0	0	0	0											
Adenocarcinoma		10	0	0	0	0											

Not significantly different from control.

Grade sign: -, none; +, mild(existent of tumor); ++, moderate; +++, marked.

NR: no remarkable changes.

NA: not applicable.

Figures in parentheses are number of animals with tissues examined histopathologically.
Two males in the 0.1 mg/kg group died.

Table 16 - continued Histopathological findings
Male, Female, 52w

Study No. P030097

Organs and findings	Sex	Group and dose	Male																					
			Control				0.1 mg/kg				0.5 mg/kg				2.5 mg/kg									
	Number of animals		- +		++ +++		Total	- +		++ +++		Total	- +		++ +++		Total	- +		++ +++		Total		
	-	+	++	+++	-	+	++	+++	-	+	++	+++	-	+	++	+++	-	+	++	+++	-	+	++	+++
Endocrine system																								
Pituitary																								
Hyperplasia, anterior lobe			7	3	0	0	0	0	3			(0)						10	0	0	(10)	0	0	
Cyst, anterior lobe			10	0	0	0	0	0	0			(0)						9	1	0	0	0	1	
Thyroid																								
Hyperplasia, C cell																								
Deposit, material, interstitium, eosinophilic			10	0	0	0	0	0	0			(0)						10	0	0	0	0	0	
Remnant, ultimobranchial body			10	0	0	0	0	0	0			(0)						9	1	0	0	0	1	
Parathyroid																								
Adrenal																								
Hyper trophy, cortical cell, focal			8	2	0	0	0	0	2			(0)						7	3	0	0	0	3	
Hyperplasia, cortical cell, focal			9	1	0	0	0	0	1			(0)						9	1	0	0	0	1	
Angiectasis			10	0	0	0	0	0	0			(0)						10	0	0	0	0	0	
Nervous system																								
Cerebrum																								
Cerebellum																								
Medulla oblongata																								
Spinal cord																								
Optic nerve																								
Sciatic nerve																								
Special sense organs																								
Eye																								
Harderian gland																								
Cellular infiltration, lymphocyte			10	0	0	0	0	0	0			(0)						10	0	0	(10)	0	0	
Musculoskeletal system																								
M. biceps femoris																								
NR																								

Not significantly different from control.

Grade sign: -, none; +, mild; ++, moderate; +++, marked.

NR: no remarkable changes.

NA: not applicable.

Figures in parentheses are number of animals with tissues examined histopathologically.
Two males in the 0.1 mg/kg group died.

Table 16 - continued

Histopathological findings
Male, Female, 52w

Study No. P030097

Organs and findings	Sex Group and dose	Male																										
		Control				0.1 mg/kg				0.5 mg/kg				2.5 mg/kg														
		Number of animals		-		+		++		+++		Total		-		+		++		+++		Total						
		-	+	++	+++	Total	-	+	++	+++	Total	-	+	++	+++	Total	-	+	++	+++	Total	-	+	++	+++	Total		
Musculoskeletal system																												
Sternum																												
Femur							NR(10)	NR(10)				(0)	(0)			(0)	(0)								NR(10)	NR(10)		
Integumentary system																												
Integument							NR(10)	NR(10)				(0)	(0)			(0)	(0)								NR(10)	NR(10)		
Others																												
Extremity																												
Ulcer, hindlimb							0	4	(5)	0	5		(0)	(0)		(0)	(0)							0	0	(1)	0	1

Not significantly different from control.

Grade sign: -, none; +, mild; ++, moderate; +++, marked.

NR: no remarkable changes.

Figures in parentheses are number of animals with tissues examined histopathologically.

Two males in the 0.1 mg/kg group died.

Table 16 - continued

Histopathological findings
Male, Female, 52w

Study No. P030097

Organs and findings	Sex Group and dose Number of animals	Female															
		Control				0.5 mg/kg				2.5 mg/kg				12.5 mg/kg			
		-	+	++	+++ Total	-	+	++	+++ Total	-	+	++	+++ Total	-	+	++	+++ Total
Digestive system																	
Tongue																	
Esophagus																	
Stomach																	
Dilatation, glandular space, glandular stomach		10	0	0	0	0											
Cellular infiltration, mucosa, glandular stomach, neutrophil		10	0	0	0	0											
Duodenum																	
Jejunum																	
Ileum																	
Cecum																	
Fibrosis, muscular layer		10	0	0	0	0											
Colon																	
Rectum																	
Submaxillary gland																	
Sublingual gland																	
Parotid gland																	
Cellular infiltration, lymphocyte		10	0	0	0	0											
Liver																	
Degeneration, hepatocyte, fatty, periportal		8	2	0	0	2											
Degeneration, cystic		10	0	0	0	0											
Necrosis, hepatocyte, focal		8	2	0	0	2											
Hypertrophy, hepatocyte ¹⁾ , centrilobular		10	0	0	0	0											
Hematopoiesis, extramedullary		8	2	0	0	2											
Focus, altered cell, basophilic		6	4	0	0	4											
Focus, altered cell, clear		10	0	0	0	0											
Deposit, lipofuscin ²⁾ , hepatocyte		10	0	0	0	0											
Angiectasis		10	0	0	0	0											
Cellular infiltration, mononuclear cell		10	0	0	0	0											
Adenoma, hepatocellular		10	0	0	0	0											

*: P<0.05 (significantly different from control).

Grade sign: -, none; +, mild(existent of tumor); ++, moderate; +++, marked.

NR: no remarkable changes.

1) with eosinophilic granular cytoplasm.

2) Identified by Schmorl method, Berlin blue staining and Hall method.

Figures in parentheses are number of animals with tissues examined histopathologically.

One female in the 12.5 mg/kg group died.

Table 16 - continued

Histopathological findings
Male, Female, 52w

Organs and findings	Sex Group and dose Number of animals	Female														
		Control				0.5 mg/kg				2.5 mg/kg						
		10		10		10		10		10		9				
		-	+	++	+++	Total	-	+	++	+++	Total	-	+	++	+++	Total
Digestive system																
Pancreas																
Atrophy, acinus, focal		9	1	0	0	(10)					(0)					
Hyperplasia, acinar cell, focal		10	0	0	0	0					(0)					
Cellular infiltration, lymphocyte		10	0	0	0	0					(0)					
Fibrosis, islet		10	0	0	0	0					(0)					
Respiratory system																
Trachea																
Cellular infiltration, lamina propria, neutrophil		10	0	0	0	0					(0)					
Lung																
Accumulation, foam cell, alveolus		6	4	0	0	4					(0)					
Pneumonia, aspiration		10	0	0	0	0					(0)					
Mineralization, artery		9	1	0	0	1					(0)					
Hematopoietic system																
Thymus																
Atrophy		1	8	1	0	9					(0)					
Submaxillary lymph node							NR(10)				(0)					
Popliteal lymph node							(0)				(0)					
Proliferation, plasma cell							(0)				(0)					
Mesenteric lymph node							NR(10)				(0)					
Spleen							(10)				(0)					
Thickening, capsule							(0)				(0)					
Hematopoiesis, extramedullary							0				(0)					
Deposit, pigment, red pulp, brown							2				(0)					
Bone marrow (sternum)							1				(0)					
Atrophy, focal							0				(0)					

Not significantly different from control.
Grade sign: -, none; +, mild; ++, moderate; +++, marked.

NR: no remarkable changes.

Figures in parentheses are number of animals with tissues examined histopathologically.

One female in the 12.5 mg/kg group died.

Table 16 - continued

Histopathological findings
Male, Female, 52w

Study No. P030097

Organs and findings	Sex Group and dose	Female														
		Control				0.5 mg/kg				2.5 mg/kg						
		Number of animals		10		10		10		9		10				
		-	+	++	+++	Total	-	+	++	+++	Total	-	+	++	+++	Total
Hematopoietic system																
Bone marrow (femur)						(10)					(0)					
Atrophy, focal		10	0	0	0	0					(0)					
Hematopoiesis, increased		9	1	0	0	1					(0)					
Cardiovascular system																
Heart						(10)					(0)					
Cellular infiltration, mononuclear cell		9	1	0	0	1					(0)					
Fibrosis, myocardium		10	0	0	0	0					(0)					
Aorta						NR(10)					(0)					
Urinary system																
Kidney																
Hyperplasia, epithelial cell, tubule		10	0	0	0	0					(0)					
Hyperplasia, transitional cell, pelvis		10	0	0	0	0					(0)					
Tubule, basophilic		10	0	0	0	0					(0)					
Cast, proteinaceous		10	0	0	0	0					(0)					
Hemorrhage, pelvis		10	0	0	0	0					(0)					
Cellular infiltration, mononuclear cell, pelvis		9	1	0	0	1					(0)					
Cellular infiltration, mononuclear cell, cortex		10	0	0	0	0					(0)					
Cellular infiltration, pelvis, neutrophil		10	0	0	0	0					(0)					
Cellular infiltration, cortex, neutrophil		9	1	0	0	1					(0)					
Cellular exudation, pelvic cavity, neutrophil		9	1	0	0	1					(0)					
Mineralization, papilla		7	3	0	0	3					(0)					
Mineralization, pelvis		7	3	0	0	3					(0)					
Urinary bladder						(10)					(0)					
Cellular infiltration, muscular layer, neutrophil		10	0	0	0	0					(0)					

Not significantly different from control.

Grade sign: -, none; +, mild; ++, moderate; +++, marked.

NR: no remarkable changes.

Figures in parentheses are number of animals with tissues examined histopathologically.

One female in the 12.5 mg/kg group died.

Table 16 - continued

Histopathological findings
Male, Female, 52w

Study No. P030097

Organs and findings	Sex Group and dose Number of animals	Female															
		Control				0.5 mg/kg				2.5 mg/kg				12.5 mg/kg			
		-	+	++	+++ Total	-	+	++	+++ Total	-	+	++	+++ Total	-	+	++	+++ Total
Genital system																	
Testis																	
Atrophy, seminiferous tubule																	
Hyperplasia, leydig cell, focal																	
Epididymis																	
Decrease, sperm, lumen																	
Cellular infiltration, mononuclear cell																	
Prostate																	
Atrophy																	
Hemorrhage																	
Cellular infiltration, mononuclear cell																	
Seminal vesicle																	
Ovary																	
Dilatation, ovarian bursa																	
Cyst																	
Uterus																	
Metaplasia, epithelial cell, gland, squamous																	
Polyp, endometrial stromal																	
Vagina																	
Degeneration, epithelium, mucous																	
Mammary gland																	
Hyperplasia, lobular																	
Ectasia, alveolus/duct																	
Adenoma																	
Fibroadenoma																	
Adenocarcinoma																	

Not significantly different from control.

Grade sign: -, none; +, mild(existent of tumor); ++, moderate; +++, marked.

NR: no remarkable changes.

NA: not applicable.

Figures in parentheses are number of animals with tissues examined histopathologically.
One female in the 12.5 mg/kg group died.

Table 18 - continued

Histopathological findings
Male, Female, 52w

Study No. P030097

Not significantly different from control

Grade sign: -, none; +, mild; ++, moderate; +++, marked
NB: no remarkable changes

NR: no remarkable changes.

Figures in parentheses are number of animals with tissue

One female in the 12.5 mg/kg group died.

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Table 16 - continued

Histopathological findings
Male, Female, 52w

Study No. P030097

Organs and findings	Sex Group and dose	Number of animals	Female																
			Control				0.5 mg/kg				2.5 mg/kg								
			10		10		10		10		9								
			-	+	++	+++	Total	-	+	++	+++	Total	-	+	++	+++	Total		
Musculoskeletal system																			
Sternum																			
Femur								NR(10)		(0)		(0)		(0)		NR(9)	NR(9)		
Integumentary system																			
Integument								NR(10)		(0)		(0)		(0)		NR(9)			
Others																			
Extremity																			
Ulcer, hindlimb			0	1	(1)	0	1			(0)		(0)		(0)		0	2	(2)	
																0	2	0	2

Not significantly different from control.

Grade sign: -, none; +, mild; ++, moderate; +++, marked.

NR: no remarkable changes.

Figures in parentheses are number of animals with tissues examined histopathologically.

One female in the 12.5 mg/kg group died.