

Table 16 - continued

Histopathological findings  
Male, Female, 52w

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

Organs and findings	Sex	Group and dose	Female																				
			Control				0.5 mg/kg				2.5 mg/kg				12.5 mg/kg								
			Number of animals				10				10				10								
			-	+	++	+++	Total	-	+	++	+++	Total	-	+	++	+++	Total	-	+	++	+++	Total	
Digestive system																							
Tongue																							
Esophagus																							
Stomach																							
Dilatation, glandular space, glandular stomach			10	0	0	0	0												9	0	0	0	0
Cellular infiltration, mucosa, glandular stomach, neutrophil			10	0	0	0	0												8	1	0	0	1
Duodenum																							
Jejunum																							
Ileum																							
Cecum																							
Fibrosis, muscular layer			10	0	0	0	0												8	1	0	0	1
Colon																							
Rectum																							
Submaxillary gland																							
Sublingual gland																							
Parotid gland																							
Cellular infiltration, lymphocyte			10	0	0	0	0												8	1	0	0	1
Liver																							
Degeneration, hepatocyte, fatty, periportal			8	2	0	0	2												10	0	0	0	0
Degeneration, cystic			10	0	0	0	0											10	0	0	0	0	
Necrosis, hepatocyte, focal			8	2	0	0	2											10	0	0	0	0	
Hypertrophy, hepatocyte <sup>1)</sup> , centrilobular			10	0	0	0	0											10	0	0	0	0	
Hematopoiesis, extramedullary			8	2	0	0	2											10	0	0	0	0	
Focus, altered cell, basophilic			6	4	0	0	4											8	2	0	0	2	
Focus, altered cell, clear			10	0	0	0	0											10	0	0	0	0	
Deposit, lipofuscin <sup>2)</sup> , hepatocyte			10	0	0	0	0											10	0	0	0	0	
Angiectasis			10	0	0	0	0											10	0	0	0	0	
Cellular infiltration, mononuclear cell			10	0	0	0	0											10	0	0	0	1	
Adenoma, hepatocellular			10	0	0	0	0											8	1	0	0	1	

\*: 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	Female												
			Control				0.5 mg/kg				2.5 mg/kg				
			Number of animals			Total	10			Total	10			Total	
	-	+	++	+++	Total	-	+	++	+++	Total	-	+	++	+++	Total
Digestive system															
Pancreas															
Atrophy, acinus, focal	9	1	0	0	1						(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															
Popliteal lymph node															
Proliferation, plasma cell															
Mesenteric lymph node															
Spleen															
Thickening, capsule	10	0	0	0	0						(0)				
Hematopoiesis, extramedullary	8	2	0	0	2						(0)				
Deposit, pigment, red pulp, brown	9	1	0	0	1						(0)				
Bone marrow (sternum)															
Atrophy, focal	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

Organs and findings	Sex	Female																			
		Control				0.5 mg/kg				2.5 mg/kg				12.5 mg/kg							
		Number of animals			-	+	++	+++	Total	-	+	++	+++	Total	-	+	++	+++	Total		
		-	+	++	+++	Total	-	+	++	+++	Total	-	+	++	+++	Total	-	+	++	+++	Total
Hematopoietic system																					
Bone marrow (femur)		10	0	0	0	(10)					(0)						8	1	0	(9)	0
Atrophy, focal		9	1	0	0	1											9	0	0	0	1
Hematopoiesis, increased																					
Cardiovascular system																					
Heart																					
Cellular infiltration, mononuclear cell		9	1	0	0	(10)					(0)						7	2	0	(9)	0
Fibrosis, myocardium		10	0	0	0	0										8	1	0	0	1	
Aorta																					
Urinary system																					
Kidney																					
Hyperplasia, epithelial cell, tubule		10	0	0	0	(10)					(0)						8	1	0	(9)	0
Hyperplasia, transitional cell, pelvis		10	0	0	0	0										8	1	0	0	1	
Tubule basophilic		10	0	0	0	0										7	2	0	0	2	
Cast, proteinaceous		10	0	0	0	0										8	1	0	0	1	
Hemorrhage, pelvis		10	0	0	0	0										9	0	0	0	0	
Cellular infiltration, mononuclear cell, pelvis		9	1	0	0	1										9	0	0	0	0	
Cellular infiltration, mononuclear cell, cortex		10	0	0	0	0										8	1	0	0	1	
Cellular infiltration, pelvis, neutrophil		10	0	0	0	0										8	1	0	0	1	
Cellular infiltration, cortex, neutrophil		9	1	0	0	1										9	0	0	0	0	
Cellular exudation, pelvic cavity, neutrophil		9	1	0	0	1										8	1	0	0	1	
Mineralization, papilla		7	3	0	0	3										8	1	0	0	1	
Mineralization, pelvis		7	3	0	0	3										8	1	0	0	1	
Urinary bladder																					
Cellular infiltration, muscular layer, neutrophil		10	0	0	0	(10)					(0)					9	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	Female											
		Control				0.5 mg/kg				2.5 mg/kg			
		Number of animals			Total	10			Total	10			Total
		-	+	++	+++	-	+	++	+++	-	+	++	+++
Genital system													
Testis						NA		NA		NA		NA	
Atrophy, seminiferous tubule													
Hyperplasia, leydig cell, focal													
Epididymis						NA		NA		NA		NA	
Decrease, sperm, lumen													
Cellular infiltration, mononuclear cell													
Prostate						NA		NA		NA		NA	
Atrophy													
Hemorrhage													
Cellular infiltration, mononuclear cell													
Seminal vesicle						NA (10)		NA (0)		NA (0)		NA (9)	
Ovary													
Dilatation, ovarian bursa		10	0	0	0	0				8	1	0	0
Cyst		8	2	0	0	2				7	2	0	0
Uterus						(10)		(0)		(0)		(9)	
Metaplasia, epithelial cell, gland, squamous		5	5	0	0	5					7	2	0
Polyp, endometrial stromal		10	0	0	0	0					8	1	0
Vagina						(10)		(0)		(0)		(9)	
Degeneration, epithelium, mucous		9	1	0	0	1					8	1	0
Mammary gland						(10)		(0)		(0)		(9)	
Hyperplasia, lobular		8	2	0	0	2					5	4	0
Ectasia, alveolus/duct		7	1	2	0	3					4	2	3
Adenoma						(9)		(1)			8	1	0
Fibroadenoma						8	2	0	0		8	1	0
Adenocarcinoma						9	1	0	0		8	1	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 female in the 12.5 mg/kg group died.

Table 16 - continued

Histopathological findings  
Male, Female, 52w

Study No. P030097

Organs and findings	Sex	Female														
		Control				0.5 mg/kg				2.5 mg/kg						
	Number of animals		10		10		10		9							
		-	+	++	+++	Total	-	+	++	+++	Total	-	+	++	+++	Total
Endocrine system																
Pituitary																
Hyperplasia, anterior lobe.		7	3	0	0	3						6	3	0	0	3
Cysts, anterior lobe		10	0	0	0	0						9	0	0	0	0
Thyroid																
Hyperplasia, C cell		10	0	0	0	0						8	1	0	0	1
Deposit, material, interstitium, eosinophilic		10	0	0	0	0						9	0	0	0	0
Remnant, ultimobranchial body		8	2	0	0	2						8	1	0	0	1
Parathyroid																
Adrenal																
Hypertrophy, cortical cell, focal		8	2	0	0	2						7	2	0	0	2
Hyperplasia, cortical cell, focal		6	4	0	0	4						8	1	0	0	1
Angiectasis		6	4	0	0	4						8	1	0	0	1
Nervous system																
Cerebrum							NR(10)				(0)				NR(9)	
Cerebellum							NR(10)				(0)				NR(9)	
Medulla oblongata							NR(10)				(0)				NR(9)	
Spinal cord							NR(10)				(0)				NR(9)	
Optic nerve							NR(10)				(0)				NR(9)	
Sciatic nerve							NR(10)				(0)				NR(9)	
Special sense organs																
Eye							NR(10)				(0)				NR(9)	
Harderian gland							(10)				(0)				(9)	
Cellular infiltration, lymphocyte		10	0	0	0	0						8	1	0	0	1
Musculoskeletal system																
M. biceps femoris							NR(10)				(0)				NR(9)	

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

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