Table 2-75

Detailed clinical signs in male rats: open field observation (Recovery group, Week 4 of administration)

	Dose (mg/kg)	0	1000
Parameter	No. of animals	5	5
Arousal Normal		5	5
Convulsion		·	v
None		5	5
Abnormal beha None	wior	5	5
Stereotypy			
None		5	5
Sait Normal	•	5	5
Posture Normal		5	5
Grooming		· ·	Ů
None		5	5
Rearing (Mean	<u>+</u> S.D.)	4 <u>+</u> 0	4 2
efecation co	ount (Mean+S.D.)	0 <u>+</u> 0	0 <u>+</u> 0
Urination			4
None Small amour	nt	4 1	4 1

No significant difference between treated group and control group.

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Table 2-76

A combined repeated-dose/reproductive-developmental toxicity study in rats treated orally with 2.3.4.4'-Tetrahydroxybenzophenone

Detailed clinical signs in male rats: open field observation (Recovery group, Week 5 of administration)

	Dose (mg/kg)	0	1000
Parameter	No. of animals	5	5
Arousal Normal		5	5
Convulsion None		5	5
Abnormal bel None	havior	· 5	5
Stereotypy None		5	5
Gait Normal		5	5
Posture Normal		5	5
Grooming None		5	5
Rearing (Me	an <u>+</u> S.D.)	3 <u>+</u> 2	2 <u>+</u> 1
Defecation (	count (Mean+S.D.)	0 <u>+</u> 0	0 <u>+</u> 0
Urination None Small amo Moderate		3 1 1	5 0 0

Table 2-77

Detailed clinical signs in male rats: open field observation (Recovery group, Week 6 of administration)

	Dose (mg/kg)	. 0	1000		
Parameter	No. of animals	5	5		
lrousal Normal		5	5		
Convulsion None		5	5		
bnormal beh None	avior	5	5		
tereotypy None		5	5		
ait Normal		, 5	5		
osture Normal		s	5 .		
rooming None	•	5	5	•	
tearing (Mea	n <u>+</u> S.D.)	5 <u>+</u> 2	4 <u>+</u> 2		
efecation o	ount (Mean+S.D.)	0± 0	0 <u>+</u> 0		
Jrination None Small amou Moderate a	int imount	3 1 1	3 2 0		

No significant difference between treated group and control group.

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Table 2-78

A combined repeated-dose/reproductive-developmental toxicity study in rats treated orally with 2,3,4,4'-Tetrahydroxybenzophenone

Detailed clinical signs in male rats: open field observation (Recovery group, Week 1 of recovery)

	Dose (mg/kg)	0	1000
Parameter	No. of animals	5	5
Arousal			
Normal		5 ,	. 5
Convulsion None		5	5
		Ü	Ü
Abnormal bel	havior	5	5
Stereotypy			
None		5	5
Gait Normal		5	5
		3	5
Posture Normal		5	5
Grooming			
None		5	5
Rearing (Me.	an <u>+</u> S.D.)	3 <u>+</u> 1	4 <u>+</u> 1
Defecation o	count (Mean+S.D.)	0 <u>+</u> 0	0 <u>+</u> 0
Urination		_	
None Small amo	unt	5 0	4
Small amor	unt	Ö	1

Table 2-79

Detailed clinical signs in male rats: open field observation (Recovery group, Week 2 of recovery)

Dose (mg/kg)	0	1000	
Parameter No. of animals	5	5	
Arousal Normal	5	5	
Convulsion None	5	5	
Abnormal behavior None	5	5	
Stereotypy None	5	5	
Gait Normal	5	. 5	
Posture Normal	5	5	
Grooming None	5	, s	
Rearing (Mean±S.D.)	4 <u>+</u> 2	4 <u>+</u> 1	
Defecation count (Mean <u>+</u> S.D.)	0 <u>+</u> 0	0 <u>+</u> 0	
Urination None Small amount Moderate amount	3 0 2	3 1 1	

No significant difference between treated group and control group.

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Table 2-80

A combined repeated-dose/reproductive-developmental toxicity study in rats treated orally with 2.3.4.4'-Tetrahydroxybenzophenone

Detailed clinical signs in female rats: open field observation (Recovery group, Week 1 of administration)

	Dose (mg/kg)	0	1000
Parameter	No. of animals	5	5
Arousal			
Normal		5	5
Convulsion None		5	5
Abnormal be	havior		
None		5	5
Stereotypy None		5	5
Gait			
Normal		5	5
Posture Normal		5	5
Grooming None		5	5
	C D \		
Rearing (Me	an <u>+</u> S.D.)	6 <u>±</u> 3	6 <u>+</u> 2
Defecation	count (Mean <u>+</u> S.D.)	0 <u>+</u> 0	0 <u>+</u> 0
Urination None		5	5
None		3	•

Table 2-81

Detailed clinical signs in female rats: open field observation (Recovery group, Week 2 of administration)

	Dose (mg/kg)	0	1000
Parameter	No. of animals	5	5
Arousal			
Normal		5	5
Convulsion None		5	5
Abnormal be	ehavior		
None		5	5
Stereotypy			
None		5	5
Gait		_	_
Normal	•	5	5
Posture Normal		5	5
	•	3	3
Grooming None		5	5
	0 B 3		
Rearing (Me	ean±5.D.)	7 <u>+</u> 2	7 <u>+</u> 3
Defecation	count (Mean+S.D.)	0 <u>+</u> 0	0 <u>+</u> 0
Urination			
None		5	5

No significant difference between treated group and control group.

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Table 2-82

A combined repeated-dose/reproductive-developmental toxicity study in rats treated orally with 2,3,4,4'-Tetrahydroxybenzophenone

Detailed clinical signs in female rats: open field observation (Recovery group, Week 3 of administration)

	Dose (mg/kg)	0	1000
Parameter	No. of animals	5	5
Arousal Normal		5	5
		,	3
Convulsion None		5	5
Abnormal be None	havior	5	5
Stereotypy None		5	5
Gait			
Normal		5	5
Posture Normal		5	5
Grooming None		5	5
Rearing (Me	anas D. )	8 <u>+</u> 3	7 <u>+</u> 2
Defecation	count (Mean+S.D.)	0 <u>+</u> 0	0 <u>±</u> 0
Urination None		5	5

Table 2-83

Detailed clinical signs in female rats: open field observation (Recovery group, Week 4 of administration)

•	Dose (mg/kg)	0	1000
Parameter	No. of animals	5	5
Arousal		5	-
Normal		ð	5
Convulsion None		5	5
Abnormal be None	havior	5	5
Stereotypy None		5	5
Gait			
Normal		5	5
Posture Normal		5	5
Grooming None		5	5
Rearing (Me	ean <u>+</u> S.D.)	10 <u>+</u> 2	8 <u>+</u> 1
Defecation	count (Mean+S.D.)	0 <u>+</u> 0	0 <u>+</u> 0
Urination None		5	5

No significant difference between treated group and control group.

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Table 2-84

A combined repeated-dose/reproductive-developmental toxicity study in rats treated orally with 2,3.4.4'-Tetrahydroxybenzophenone

Detailed clinical signs in female rats: open field observation (Recovery group, Week 5 of administration)

	Dose (mg/kg)	0	1000
Parameter	No. of animals	5	5
Arousal Normal		5	5
		3	5
Convulsion None		5	5
Abnormal be None	havior	5	5
Stereotypy None		5	5
Gait Normal		5	5
Posture Normal		5	5
Grooming None		5	. 5
Rearing (Me	an+S.D.)	9 <u>+</u> 2	8 <u>+</u> 2
Defecation	count (Mean+S.D.)	0 <u>+</u> 0	0 <u>+</u> 0
Urination None		5	5

Table 2-85

Detailed clinical signs in female rats: open field observation (Recovery group, Week 6 of administration)

Dose (mg/kg)	0	1000		
Parameter No. of animals	5	5	···	·
Arousal Normal	5	5		
	3	5		
Convulsion None	5	5		
Abnormal behavior	_	_	*	
None	5	5		
Stereotypy None	5	5		
Galt				
Normal	5	5		
Posture Normal	5	5		
Grooming				
None	5	5		
Rearing (Mean <u>+</u> S.D.)	8 <u>+</u> 2	7 <u>+</u> 1		
Defecation count (Mean+S.D.)	0 <u>+</u> 0	0 <u>+</u> 0		
Urination None	5	5		

No significant difference between treated group and control group.

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Table 2-86

A combined repeated-dose/reproductive-developmental toxicity study in rats treated orally with 2,3,4,4 Tetrahydroxybenzophenone

Detailed clinical signs in female rats: open field observation (Recovery group, Week 1 of recovery)

	Dose (mg/kg)	0	1000
Parameter	No. of animals	5	5
Arousal Normal		5	5
Convulsion None	•	5	5
Abnormal be None	havior	5	5
Stereotypy None		5	5
Gait Normal		5	5
Posture Normal		5	5
Grooming None		5	5
Rearing (Me	ean <u>+</u> S.D.)	9 <u>+</u> 3	7 <u>+</u> 2
Defecation	count (Mean + S.D.)	0 <u>+</u> 0	0 <u>+</u> 0
Urination None		. 5	5

Table 2-87

Detailed clinical signs in female rats: open field observation (Recovery group, Week 2 of recovery)

	Dose (mg/kg)	0	1000
Parameter	No. of animals	5	5
Arousal Normal		5	5
Convulsion			
None	•	5	5
Abnormal be None	ehavior	5	5
Stereotypy None		5	5
Gait Normal		5 .	5
Posture Normal	`	5	5
Grooming None		5	5
Rearing (Me	ean <u>+</u> S.D.)	7 <u>+</u> 2	7 <u>+</u> 1
Defecation	count (Mean+S.D.)	0 <u>+</u> 0	0 <u>+</u> 0
Urination None		5	5

No significant difference between treated group and control group.

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Table 2-88

A combined repeated-dose/reproductive-developmental toxicity study in rats treated orally with 2,3,4,4'-Tetrahydroxybenzophenone

Manipulative test of male rats (Main group, Week 6 of administration)

	Dose (mg/kg)	0	100	300	1000
Parameter	No. of animals	5	5	5	5
Auditory response Normal	2	5	5	5	5
Approach response Normal	•	5	5	5	5
Touch response Normal		5	5	5	5
Tail pinch respon	ise	5	5	5	5
Pupillary reflex Pass, both		5	5	5	5
Aerial righting o (Total score: Mea		0 <u>+</u> 0	0 <u>+</u> 0	. 0 <u>+</u> 0	0± 0
Landing foot spla	y (mm: Mean+S.D.)	83 <u>+</u> 16	67 <u>+</u> 13	73 <u>+</u> 18	76 <u>+</u> 14

No significant difference in any treated groups from control group.

Table 2-89

Manipulative test of female rats (Main group, Day 4 of lactation)

	Dose (mg/kg)	0	100	300	1000
Parameter	No. of animals	5	5	5	5
Auditory respons Normal	e	5	5	5	5
Approach respons	e	5	5	5	5
Touch response Normal		5	5	5	5
Tail pinch respo	nse	5	5	5	5
Pupillary reflex Pass, both		5	5	5	5
Aerial righting (Total score: Me		0 <u>±</u> 0	0 <u>+</u> 0	0 <u>+</u> 0	0± 0
Landing foot spl	ay (mm; Mean+S.D.)	56 <u>+</u> 11	58 <u>+</u> 18	66 <u>+</u> 18	83 <u>+</u> 11+D

<sup>• :</sup> p<0.05 (Significant difference from control group)
D : Dunnett's test

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Table 2-90

A combined repeated-dose/reproductive-developmental toxicity study in rats treated orally with 2,3,4,4'-Tetrahydroxybenzophenone

Manipulative test of male rats (Recovery group, Week 6 of administration)

	Dose (mg/kg)	0	1000
Parameter .	No. of animals	5	5
Auditory response Normal		5	5
Approach response Normal		5	5
Touch response Normal		5	5
Tail pinch respons	se	5	5
Pupillary reflex Pass. both		5	5
Aerial righting re (Total score: Mean		0 <u>+</u> 0	0± 0
Landing foot splay	(mm: Mean+S.D.)	82 <u>+</u> 20	80±17

Table 2-91

Manipulative test of female rats (Recovery group, Week 6 of administration)

	Dose (mg/kg)	0	1000
Parameter	No. of animals	5	5
Auditory response Normal		5	5
Approach response Normal		5	5
Touch response Normal		5	5
Tail pinch response Normal		5	5
Pupillary reflex Pass, both		5	5
Aerial righting refl (Total score: Mean±S	ex i.D.)	0 <u>+</u> 0	0 <u>+</u> 0
Landing foot splay	mm: Mean+S.D.)	60 <u>+</u> 19	72 <u>+</u> 13

No significant difference between treated group and control group.

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Table 2-92

A combined repeated-dose/reproductive-developmental toxicity study in rats treated orally with 2.3.4.4 Tetrahydroxybenzophenone

Manipulative test of male rats (Recovery group, Week 2 of recovery)

	Dose (mg/kg)	0	1000
Parameter	No. of animals	5	5
Auditory respons Normal	е	5	5
Approach respons	<b>e</b> .	5	5
Touch response Normal		5	5 .
Tail pinch respo	nse	5	5
Pupillary reflex Pass, both		5	5
Aerial righting (Total score: Me		0 <u>±</u> 0	· 0± 0
Landing foot spl	ay (mm: Mean+S.D.)	90-13	83 <u>+</u> 12

Table 2-93

Manipulative test of female rats (Recovery group, Week 2 of recovery)

	Dose (mg/kg)	0	1000
Parameter	No. of animals	5	5
Auditory respons	e	5	5
Approach respons Normal	e	5	5
Touch response Normal		5	5
Tail pinch respo	nse	5	5
Pupillary reflex Pass, both		5	5
Aerial righting (Total score: Me		0 <u>±</u> 0	0 <u>+</u> 0
Landing foot spl	ay (mm: Mean <u>+</u> S.D.)	70 <u>+</u> 14	61 <u>+</u> 4

No significant difference between treated group and control group.

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Table 2-94

A combined repeated-dose/reproductive-developmental toxicity study in rats treated orally with 2,3,4,4'-Tetrahydroxybenzophenone

Grip strength of male rats (Main group, Week 6 of administration)

Dose		Fore limb	Hind limb
mg/kg		g	g
0	No.	5	5
	Mean	1601	894
	S.D.	115	77
100	No.	5	5
	Mean	1579	812
	S.D.	176	50
300	No.	5	5
	Mean	1563	823
	S.D.	172	122
1000	No.	5	5
	Mean	1359	707*
	S.D.	130	96D

<sup>• :</sup> p<0.05 (Significant difference from control group)
D: Dunnett's test

Table 2-95

Grip strength of female rats (Main group, Day 4 of lactation)

Dose mg/kg		Fore limb	Hind limb g
0	No. Mean S.D.	5 1288 166	5 822 108
100	No. Mean S.D.	1335 193	5 764 113
300	No. Mean S.D.	1133 90	5 682 97
1000	No. Mean S.D.	5 1145 202	5 654 125

No significant difference in any treated groups from control group.

Table 2-96

A combined repeated-dose/reproductive-developmental toxicity study in rats treated or ally with 2,3,4.4'-Tetrahydroxybenzophenone

Grip strength of male rats (Recovery group. Week 6 of administration)

Table 2-97

Grip strength of female rats (Recovery group. Week 6 of administration)

Dose mg/kg		Fore limb	Hind limb g
·0	No.	5	5
	Mean	1096	635
	S.D.	96	226
1000	No.	5	5
	Mean	999	675
	S.D.	152	157

No significant difference between treated group and control group.

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Table 2-98

A combined repeated-dose/reproductive-developmental toxicity study in rats treated orally with 2,3,4,4'-Tetrahydroxybenzophenone  $\dot{}$ 

Grip strength of male rats (Recovery group, Week 2 of recovery)