

	23	-	-	-	-	-	-	-	-	-	-	-	-	-
	24	-	-	-	-	-	-	-	-	-	-	-	-	-
	25	-	-	-	-	-	-	-	-	-	-	-	-	-
	26	-	-	-	-	-	-	-	-	-	-	-	-	-
	27	-	-	-	-	-	-	-	-	-	-	-	-	-
T1/0.67	28	-	-	-	-	-	-	-	-	-	-	-	-	-
	29	-	-	-	-	-	-	-	-	-	-	-	-	-
	30	-	-	-	-	-	-	-	-	-	-	-	-	-
	31	-	-	-	-	-	-	-	-	-	-	-	-	-
	32	-	-	-	-	-	-	-	-	-	-	-	-	-
T2/2.0	33	-	-	-	-	-	-	-	-	-	-	-	-	-
	34	-	-	-	-	-	-	-	-	-	-	-	-	-
	35	-	-	-	-	-	-	-	-	-	-	-	-	-
	36	-	-	-	-	-	-	-	-	-	-	-	-	-
	37	-	-	-	-	-	-	-	-	-	-	-	-	-
T3/6.0	38	-	-	-	-	-	-	-	-	-	-	-	-	-
	39	-	-	-	-	-	-	-	-	-	-	-	-	-
	40	-	-	-	-	-	-	-	-	-	-	-	-	-

-, no dead animals.

Table S2. General symptoms by individual (male on the day of administration)

Gender	Group/dosage (mCi/kg)	Animal No.	Day of administration (day 1), time after administration (hours)						
			0	1	2	3	4	5	6
Male	V.C./0	1	-	-	-	-	-	-	-
		2	-	-	-	-	-	-	-
		3	-	-	-	-	-	-	-
		4	-	-	-	-	-	-	-
		5	-	-	-	-	-	-	-
	T1/0.67	6	-	-	-	-	-	-	-
		7	-	-	-	-	-	-	-
		8	-	-	-	-	-	-	-
		9	-	-	-	-	-	-	-
		10	-	-	-	-	-	-	-
	T2/2.0	11	-	-	-	-	-	-	-
		12	-	-	-	-	-	-	-
		13	-	-	-	-	-	-	-
		14	-	-	-	-	-	-	-
		15	-	-	-	-	-	-	-
	T3/6.0	16	-	-	-	-	-	-	-
		17	-	-	-	-	-	-	-
		18	-	-	-	-	-	-	-
		19	-	-	-	-	-	-	-
		20	-	-	-	-	-	-	-

-, asymptomatic.

Table S3. General symptoms by individual (during observation period, male)

Gender	Group/dosage (mCi/kg)	Animal No.	Observation period after administration (day)													
			2	3	4	5	6	7	8	9	10	11	12	13	14	15
Male	V.C./0	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		3	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		4	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		5	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	T1/0.67	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		7	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		8	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		9	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	T2/2.0	11	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		12	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		13	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		14	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		15	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	T3/6.0	16	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		17	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		18	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		19	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		20	-	-	-	-	-	-	-	-	-	-	-	-	-	-

-, asymptomatic.

Table S4. General symptoms by individual (female on the day of administration)

Gender	Group/dosage (mCi/kg)	Animal No.	Day of administration (day 1), time after administration (hours)						
			0	1	2	3	4	5	6
Female	V.C./0	21	-	-	-	-	-	-	-
		22	-	-	-	-	-	-	-
		23	-	-	-	-	-	-	-
		24	-	-	-	-	-	-	-
		25	-	-	-	-	-	-	-
	T1/0.67	26	-	-	-	-	-	-	-
		27	-	-	-	-	-	-	-
		28	-	-	-	-	-	-	-
		29	-	-	-	-	-	-	-
		30	-	-	-	-	-	-	-
	T2/2.0	31	-	-	-	-	-	-	-
		32	-	-	-	-	-	-	-
		33	-	-	-	-	-	-	-
		34	-	-	-	-	-	-	-
		35	-	-	-	-	-	-	-
	T3/6.0	36	-	-	-	-	-	-	-
		37	-	-	-	-	-	-	-
		38	-	-	-	-	-	-	-
		39	-	-	-	-	-	-	-
		40	-	-	-	-	-	-	-

-, asymptomatic.

Table S5. General symptoms by individual (during observation period, female)

Gender	Group/dosage (mCi/kg)	Animal No.	Observation period after administration (day)													
			2	3	4	5	6	7	8	9	10	11	12	13	14	15
Female	V.C./0	21	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		22	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		23	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		24	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		25	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	T1/0.67	26	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		27	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		28	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		29	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		30	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	T2/2.0	31	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		32	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		33	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		34	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		35	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	T3/6.0	36	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		37	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		38	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		39	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		40	-	-	-	-	-	-	-	-	-	-	-	-	-	-

-, asymptomatic.

Table S6. Individual weight (male)

Gender	Group/dosage (mCi/kg)	Animal No.	Observation period (day)						
			1	3	5	8	12	15	
Male	V.C./0	1	230.19	229.70	274.36	309.17	337.11	374.34	
		2	231.24	231.22	278.52	313.36	344.83	368.38	
		3	223.65	225.78	272.48	304.62	333.26	361.53	
		4	211.55	216.92	261.37	289.82	324.00	357.99	
		5	222.34	222.16	276.35	310.56	348.29	378.86	
		Average (g)	223.79	225.16	272.62	305.51	337.50	368.22	
		S.D. (g)	7.88	5.80	6.68	9.32	9.62	8.66	
		The number of animal	5	5	5	5	5	5	
		T1/0.67	6	240.64	247.21	291.44	323.06	346.32	373.55
			7	227.09	232.75	275.58	306.29	340.18	368.65
			8	217.42	220.33	261.29	293.28	322.82	352.28
			9	216.59	225.39	275.18	303.23	334.62	366.39
			10	210.86	219.37	260.94	288.61	321.30	345.25
		Average (g)	222.52	229.01	272.89	302.89	333.05	361.22	
		S.D. (g)	11.69	11.47	12.59	13.37	10.86	11.93	
		The number of animal	5	5	5	5	5	5	
	T2/2.0	11	227.84	236.68	284.47	314.43	343.31	372.16	
		12	229.69	235.35	280.83	308.81	332.66	359.92	
		13	224.26	231.48	273.64	295.48	320.76	349.83	

	14	222.13	230.78	271.10	303.32	328.63	360.40
	15	210.83	219.66	259.94	288.45	315.07	338.72
	Average (g)	222.95	230.79	274.00	302.10	328.09	356.21
	S.D. (g)	7.39	6.71	9.52	10.35	10.91	12.57
	The number of animal	5	5	5	5	5	5
T3/6.0	16	228.29	235.29	279.97	311.19	345.32	373.39
	17	227.39	234.08	277.49	308.05	340.09	375.37
	18	223.35	233.16	281.94	318.44	358.09	392.30
	19	213.08	219.00	260.25	287.59	325.30	352.44
	20	210.62	214.38	257.40	292.06	322.51	348.73
	Average (g)	220.55	227.18	271.41	303.47	338.26	368.45
	S.D. (g)	8.20	9.75	11.64	13.11	14.68	17.93
	The number of animal	5	5	5	5	5	5

There was no statistically significant difference in group comparison using SPSS.

Table S7. Weight gain by individual (male)

Gender	Group/dosage (mCi/kg)	Animal No.	Observation period (day)					
			3	5	8	12	15	
Male	V.C./0	1	-0.49	44.17	78.98	106.92	144.15	
		2	-0.02	47.28	82.12	113.59	137.14	
		3	2.13	48.83	80.97	109.61	137.88	
		4	5.37	49.82	78.27	112.45	146.44	
		5	-0.18	54.01	88.22	125.95	156.52	
		Average (g)	1.36	48.82	81.71	113.70	144.43	
		S.D. (g)	2.47	3.60	3.95	7.32	7.85	
		The number of animal	5	5	5	5	5	
		6	6.57	50.80	82.42	105.68	132.91	
		7	5.66	48.49	79.20	113.09	141.56	
		8	2.91	43.87	75.86	105.40	134.86	
		9	8.80	58.59	86.64	118.03	149.80	
		T1/0.67	10	8.51	50.08	77.75	110.44	134.39
		Average (g)	6.49*	50.37	80.37	110.53	138.70	
	S.D. (g)	2.39	5.33	4.25	5.31	7.04		
	The number of animal	5	5	5	5	5		
	T2/2.0	11	8.84	56.63	86.59	115.47	144.32	
		12	5.66	51.14	79.12	102.97	130.23	
		13	7.22	49.38	71.22	96.50	125.57	
		14	8.65	48.97	81.19	106.50	138.27	

	15	8.83	49.11	77.62	104.24	127.89
	Average (g)	7.84 [†]	51.05	79.15	105.14	133.26
	S.D. (g)	1.39	3.24	5.58	6.87	7.82
	The number of animal	5	5	5	5	5
	16	7.00	51.68	82.90	117.03	145.10
	17	6.69	50.10	80.66	112.70	147.98
	18	9.81	58.59	95.09	134.74	168.95
	19	5.92	47.17	74.51	112.22	139.36
T3/6.0	20	3.76	46.78	81.44	111.89	138.11
	Average (g)	6.64 [‡]	50.86	82.92	117.72	147.90
	S.D. (g)	2.18	4.78	7.52	9.74	12.45
	The number of animal	5	5	5	5	5

* $p < 0.05$ (V.C. vs T1).

[†] $p < 0.05$ (V.C. vs T2).

[‡] $p < 0.05$ (V.C. vs T3).

Table S8. Individual weight (female)

Gender	Group/dosage (mCi/kg)	Animal No.	Observation period (day)						
			1	3	5	8	12	15	
Female	V.C./0	21	184.99	181.66	203.19	229.13	242.92	256.58	
		22	167.53	173.84	195.30	211.09	227.71	246.25	
		23	177.81	181.21	190.06	201.45	224.44	228.94	
		24	167.52	167.64	188.56	207.11	220.10	231.00	
		25	168.18	168.16	192.73	199.11	209.87	227.30	
		Average (g)	173.21	174.50	193.97	209.58	225.01	238.01	
		S.D. (g)	7.90	6.78	5.76	11.90	12.06	12.83	
		The number of animal	5	5	5	5	5	5	
		T1/0.67	26	184.25	184.54	209.42	225.09	232.59	234.93
			27	173.85	176.64	187.47	205.85	219.40	225.41
			28	164.71	168.36	187.66	209.99	218.37	229.52
			29	171.81	171.77	186.39	200.96	211.92	219.29
			30	175.05	179.99	197.52	212.74	219.53	242.82
		Average (g)	173.93	176.26	193.69	210.93	220.36	230.39	
		S.D. (g)	7.02	6.43	9.88	9.08	7.52	9.00	
		The number of animal	5	5	5	5	5	5	
	T2/2.0	31	184.32	179.38	209.46	236.97	254.39	270.05	
		32	180.87	184.43	206.03	219.87	229.20	248.35	
		33	166.78	168.99	192.83	208.25	214.27	223.79	

	34	165.72	158.92	175.17	194.84	204.31	211.14
	35	160.84	156.20	178.32	197.37	213.54	226.65
	Average (g)	171.71	169.58	192.36	211.46	223.14	236.00
	S.D. (g)	10.26	12.34	15.59	17.37	19.61	23.27
	The number of animal	5	5	5	5	5	5
T3/6.0	36	182.33	186.66	202.41	213.13	229.99	249.00
	37	186.75	194.38	217.21	232.93	246.76	269.62
	38	172.24	170.95	195.66	208.04	220.76	233.73
	39	163.08	175.77	195.84	208.62	226.67	240.41
	40	165.68	167.10	185.16	194.58	196.89	224.41
	Average (g)	174.02	178.97	199.26	211.46	224.21	243.43
	S.D. (g)	10.29	11.31	11.79	13.86	18.07	17.19
	The number of animal	5	5	5	5	5	5

There was no statistically significant difference in group comparison using SPSS.

Table S9. Weight gain by individual (female)

Gender	Group/dosage (mCi/kg)	Animal No.	Observation period (day)				
			3	5	8	12	15
Female	V.C./0	21	-3.33	18.20	44.14	57.93	71.59
		22	6.31	27.77	43.56	60.18	78.72
		23	3.40	12.25	23.64	46.63	51.13
		24	0.12	21.04	39.59	52.58	63.48
		25	-0.02	24.55	30.93	41.69	59.12
		Average (g)	1.30	20.76	36.37	51.80	64.81
		S.D. (g)	3.68	5.97	8.86	7.70	10.73
	The number of animal	5	5	5	5	5	
	T1/0.67	26	0.29	25.17	40.84	48.34	50.68
		27	2.79	13.62	32.00	45.55	51.56
		28	3.65	22.95	45.28	53.66	64.81
		29	-0.04	14.58	29.15	40.11	47.48
		30	4.94	22.47	37.69	44.48	67.77
		Average (g)	2.33	19.76	36.99	46.43	56.46
		S.D. (g)	2.15	5.28	6.53	5.01	9.16
The number of animal	5	5	5	5	5		
T2/2.0	31	-4.94	25.14	52.65	70.07	85.73	
	32	3.56	25.16	39.00	48.33	67.48	
	33	2.21	26.05	41.47	47.49	57.01	
	34	-6.80	9.45	29.12	38.59	45.42	
	35	-4.64	17.48	36.53	52.70	65.81	

	Average (g)	-2.12	20.66	39.75	51.44	64.29
	S.D. (g)	4.67	7.16	8.56	11.61	14.84
	The number of animal	5	5	5	5	5
T3/6.0	36	4.33	20.08	30.80	47.66	66.67
	37	7.63	30.46	46.18	60.01	82.87
	38	-1.29	23.42	35.80	48.52	61.49
	39	12.69	32.76	45.54	63.59	77.33
	40	1.42	19.48	28.90	31.21	58.73
	Average (g)	4.96	25.24	37.44	50.20	69.42
	S.D. (g)	5.45	6.06	8.09	12.70	10.35
	The number of animal	5	5	5	5	5

There was no statistically significant difference in group comparison using SPSS.

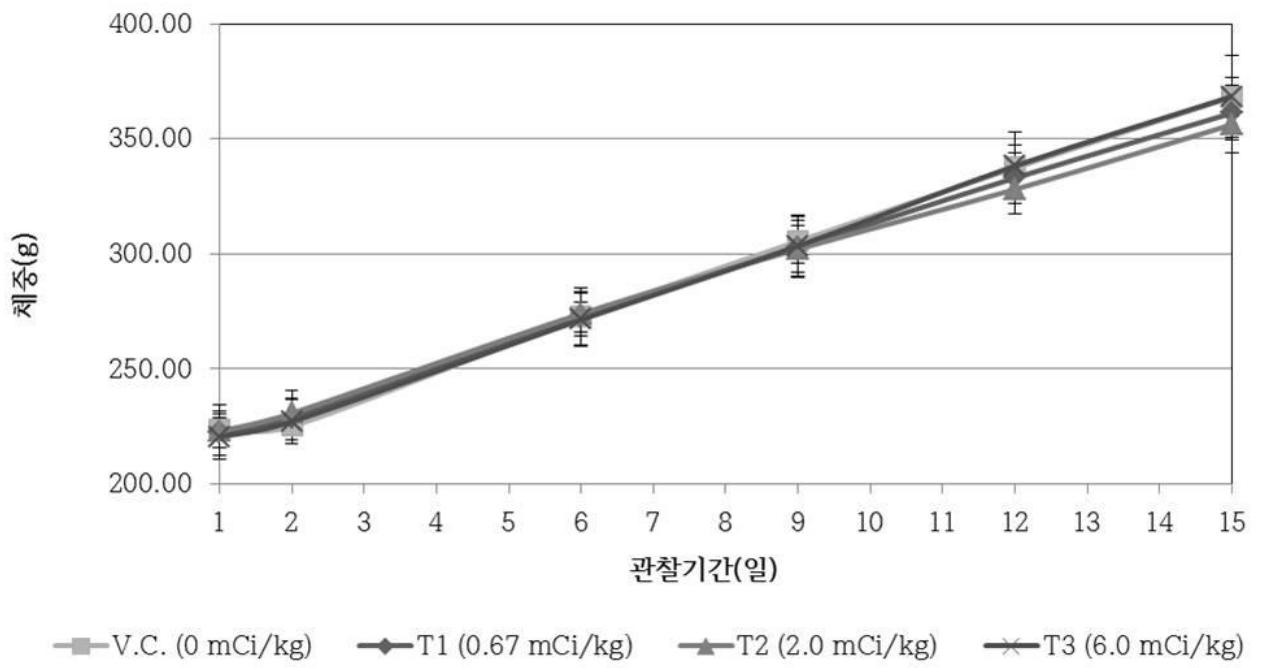


Fig. S2. Average weight change in males.

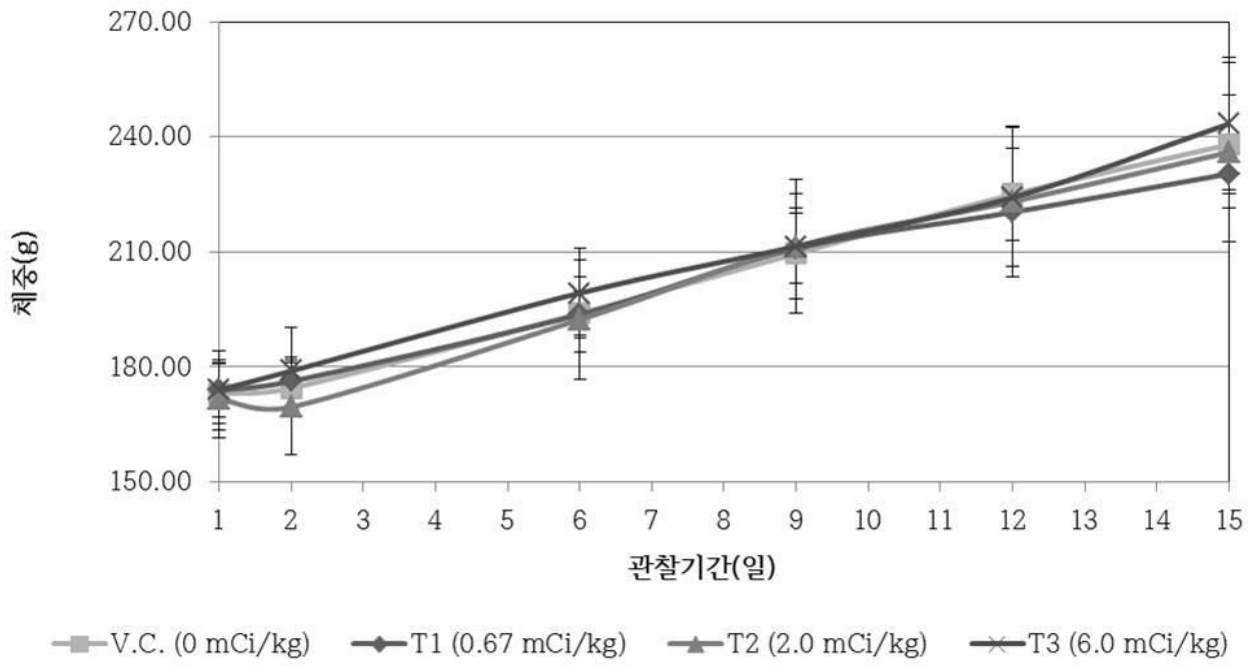


Fig. S3. Average weight change in females.

Table S10. Autopsy findings for each individual

Group/dosage (mCi/kg)	Male		Female	
	Animal No.	Autopsy findings	Animal No.	Autopsy findings
V.C./0	1	NGF	21	NGF
	2	NGF	22	NGF
	3	NGF	23	NGF
	4	NGF	24	NGF
	5	NGF	25	NGF
	The number of animals necropsied	5	The number of animals necropsied	5
	The number of abnormal findings	0	The number of abnormal findings	0
T1/0.67	6	NGF	26	NGF
	7	NGF	27	NGF
	8	NGF	28	NGF
	9	NGF	29	NGF
	10	NGF	30	NGF
	The number of animals necropsied	5	The number of animals necropsied	5
	The number of abnormal findings	0	The number of abnormal findings	0
T2/2.0	11	NGF	31	NGF
	12	NGF	32	NGF
	13	NGF	33	NGF
	14	NGF	34	NGF

	15	NGF	35	NGF
	The number of animals necropsied	5	The number of animals necropsied	5
	The number of abnormal findings	0	The number of abnormal findings	0
	16	NGF	36	NGF
	17	NGF	37	NGF
	18	NGF	38	NGF
	19	NGF	39	NGF
T3/6.0	20	NGF	40	NGF
	The number of animals necropsied	5	The number of animals necropsied	5
	The number of abnormal findings	0	The number of abnormal findings	0

NGF, no abnormal findings.