

Chemical Name	; <i>tert</i> -Butylamine
	; <u>2-Methyl-2-propanamine</u>
	<u>2-Amino-2-methylpropane</u>
	<u>2-アミノ-2-メチルプロパン</u>
Molecular Weight	; 73.14
Melting Point	; -72.65°C [Merch]
Boiling Point	; 46°C [Aldrich]
Flashing Point	; -7°C [CHCD]
Molecular Formula	; C <sub>4</sub> H <sub>11</sub> N
Chemical Structure	(CH <sub>3</sub> ) <sub>3</sub> CNH <sub>2</sub>
CAS No.	; 75-64-9
MITI No.	; (2)-132
ML No.	; 2-(10)-85
Specified Chemical Substances	; -
Source of Substance	; Tokyo Kasei Kogyo Co., Ltd.
Lot No.	; FGF01
Purity	; >98%
Vehicle	; Distilled H <sub>2</sub> O

Conc. μ g/plate	Number of Revertants/plate									
	Base-substitution						Frame-shift			
	TA100		TA1535		WP2uvrA/pKM101		TA98		TA1537	
H <sub>2</sub> O	S9-	S9+	S9-	S9+	S9-	S9+	S9-	S9+	S9-	S9+
	( 149 )	( 168 )	( 10 )	( 12 )	( 69 )	( 79 )	( 22 )	( 33 )	( 5 )	( 16 )
1.22	171	141	11	13	59	92	28	31	3	11
	150	166	11	10	67	90	22	29	6	7
4.88	( 161 )	( 154 )	( 11 )	( 12 )	( 63 )	( 91 )	( 25 )	( 30 )	( 5 )	( 9 )
	181	160	10	18	64	98	31	24	5	10
19.5	131	162	7	14	57	76	29	34	6	3
	( 156 )	( 161 )	( 9 )	( 16 )	( 61 )	( 87 )	( 30 )	( 29 )	( 6 )	( 7 )
78.1	146	144	7	8	63	75	28	29	5	10
	142	152	17	9	75	89	18	37	6	8
313	( 144 )	( 148 )	( 12 )	( 9 )	( 69 )	( 82 )	( 23 )	( 33 )	( 6 )	( 9 )
	167	179	8	8	56	98	24	38	5	9
1250	162	165	14	11	61	81	30	33	3	13
	( 165 )	( 172 )	( 11 )	( 10 )	( 59 )	( 90 )	( 27 )	( 36 )	( 4 )	( 11 )
5000	144	156	9	14	55	83	25	38	7	7
	163	169	13	11	62	104	22	30	5	15
Judgement	( 154 )	( 163 )	( 11 )	( 13 )	( 59 )	( 94 )	( 24 )	( 34 )	( 6 )	( 11 )
	149	148	8	11	54	68	18	29	6	13
Specific Mutagenicity	153	160	11	11	61	100	25	31	11	6
	( 151 )	( 154 )	( 10 )	( 11 )	( 58 )	( 84 )	( 22 )	( 30 )	( 9 )	( 10 )
Positive Control	0 *	0 *	0 *	0 *	0 *	0 *	0 *	0 *	0 *	0 *
	0 *	0 *	0 *	0 *	0 *	0 *	0 *	0 *	0 *	0 *
Control	( 0 *)	( 0 *)	( 0 *)	( 0 *)	( 0 *)	( 0 *)	( 0 *)	( 0 *)	( 0 *)	( 0 *)
	AF-2	2-AA	NaN <sub>3</sub>	2-AA	AF-2	2-AA	AF-2	2-AA	9-AA	2-AA
	( 766 )	( 1337 )	( 474 )	( 347 )	( 1962 )	( 979 )	( 385 )	( 454 )	( 632 )	( 199 )

\* Growth inhibition was observed.

Mutagenicity in Bacterial Test ; Negative

IARC Evaluation ; not yet cited

Experimental Data-2

(B9719-2/2)

Conc. μ g/plate	Number of Revertants/plate									
	Base-substitution						Frame-shift			
	TA100		TA1535		WP2uvrA/pKM101		TA98		TA1537	
H <sub>2</sub> O	S9-	S9+	S9-	S9+	S9-	S9+	S9-	S9+	S9-	S9+
	( 149 )	( 154 )	( 8 )	( 10 )	( 33 )	( 65 )	( 13 )	( 19 )	( 7 )	( 7 )
156	141	134	6	11	23	64	8	23	6	10
	150	119	9	13	26	64	11	13	10	6
	( 146 )	( 127 )	( 8 )	( 12 )	( 25 )	( 64 )	( 10 )	( 18 )	( 8 )	( 8 )
313	156	159	14	6	25	79	17	23	10	7
	149	178	6	9	23	69	15	18	6	8
	( 153 )	( 169 )	( 10 )	( 8 )	( 24 )	( 74 )	( 16 )	( 21 )	( 8 )	( 8 )
625	143	139	10	11	30	61	14	23	7	7
	131	138	14	13	32	79	20	17	6	7
	( 137 )	( 139 )	( 12 )	( 12 )	( 31 )	( 70 )	( 17 )	( 20 )	( 7 )	( 7 )
1250	145	141	11	9	37	64	18	25	3	5
	141	142	5	13	44	68	14	11	8	7
	( 143 )	( 142 )	( 8 )	( 11 )	( 41 )	( 66 )	( 16 )	( 18 )	( 6 )	( 6 )
2500	0 *	117 *	3 *	10 *	46	79	0 *	33 *	5	8
	0 *	128 *	3 *	3 *	40	70	0 *	23 *	5	9
	( 0 *)	( 123 *)	( 3 *)	( 7 *)	( 43 )	( 75 )	( 0 *)	( 28 *)	( 5 )	( 9 )
5000	0 *	0 *	0 *	0 *	0 *	0 *	0 *	0 *	0 *	0 *
	0 *	0 *	0 *	0 *	0 *	0 *	0 *	0 *	0 *	0 *
	( 0 *)	( 0 *)	( 0 *)	( 0 *)	( 0 *)	( 0 *)	( 0 *)	( 0 *)	( 0 *)	( 0 *)
Judgement	-	-	-	-	-	-	-	-	-	-
Specific Mutagenicity										
Positive Control	AF-2 ( 814 )	2-AA ( 1334 )	NaN <sub>3</sub> ( 444 )	2-AA ( 300 )	AF-2 ( 1394 )	2-AA ( 848 )	AF-2 ( 355 )	2-AA ( 402 )	9-AA ( 578 )	2-AA ( 170 )