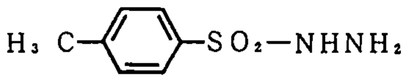
p-Toluenesulfonyl hydrazide
(p-トルエンスルホニルヒドラジド)

Chemical Name: p-Toluenesulfonyl hydrazide
Synonym: 4-Methylbenzenesulfonic acid hydrazide
p-Toluenesulfonylhydrazine
Tosylhydrazine
Molecular weight: 186.23
Melting point: ℃
Boiling point: ℃

Chemical Structure



CAS No: 1576-35-8
MITI No: (3)-1910

Source of Substance: Tokyo Kasei Kogyo Co. Ltd
Lot. No.: AQ01
Purity: extra pure reagent
Vehicle: DMSO

Mutagenicity
in Bacterial Test: Positive
IARC Evaluation: not yet cited

Experimental Data

Con. μg/plate	Number of Revertants/plate											
	Base-substitution						Frame-shift					
	TA100		TA1535		WP2uvrA		TA98		TA1537		TA1538	
	S9-	S9+	S9-	S9+	S9-	S9+	S9-	S9+	S9-	S9+	S9-	S9+
DMSO	(107)	(115)	(24)	(16)	(33)	(33)	(23)	(34)	(10)	(12)	(14)	(26)
	211	156	112	62	33	29	13	26	13	13	12	17
	196	168	129	60	34	48	19	27	17	10	19	26
20	(204)	(162)	(121)	(61)	(34)	(39)	(16)	(27)	(15)	(12)	(16)	(22)
	299	226	287	140	24	34	21	33	14	17	11	24
	288	219	261	150	35	41	17	26	17	9	10	29
50	(294)	(223)	(274)	(145)	(30)	(38)	(19)	(30)	(16)	(13)	(11)	(27)
	399	304	373	253	32	38	15	29	8	11	12	20
	413	302	419	270	41	30	10	23	9	11	10	22
100	(406)	(303)	(396)	(262)	(37)	(34)	(13)	(26)	(9)	(11)	(11)	(21)
	498	339	472	269	47	36	14	33	12	13	7	24
	472	344	450	335	35	50	10	27	13	17	16	21
200	(485)	(342)	(461)	(302)	(41)	(43)	(12)	(30)	(13)	(15)	(12)	(23)
	392	320	332	265	42	55	14	26	17	12	17	16
	393	327	338	275	36	43	14	26	16	9	17	23
500	(393)	(324)	(335)	(270)	(39)	(49)	(14)	(26)	(17)	(11)	(17)	(20)
	317	374	243	184	47	61	15	31	6	10	10	21
	292	338	240	181	47	58	13	27	16	12	18	24
1000	(305)	(356)	(242)	(183)	(47)	(60)	(14)	(29)	(11)	(11)	(14)	(23)
	284	318	191	167	55	88	12	30	10	15	8	17
	282	327	236	182	65	90	12	40	11	10	14	17
2000	(283)	(323)	(214)	(175)	(60)	(89)	(12)	(35)	(11)	(13)	(11)	(17)
	0*	310	0*	205	72	183	0*	31	0*	8	0*	16
	0*	319	0*	221	89	156	0*	31	0*	20	0*	21
5000	(0*)	(315)	(0*)	(213)	(81)	(170)	(0*)	(31)	(0*)	(14)	(0*)	(19)
Judgement	+	+	+	+	+	+	−	−	−	−	−	−
Specific Mutagenicity	3740	1880	5000	2580	9.60	28.0						
Positive Control	AF2	2AA 0.5	NaN_3	2AA	AF2	2AA	AF2	2AA	9AA	2AA	2NF	2AA
	(397)	(350)	(221)	(162)	(212)	(851)	(309)	(440)	(780)	(364)	(421)	(437)