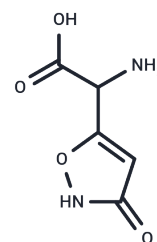


Ibotenic acid

Chemical Properties

CAS No. :	2552-55-8
Formula:	C ₅ H ₆ N ₂ O ₄
Molecular Weight:	158.11
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



Biological Description

Description	Ibotenic acid (RS-42358-197) has agonist activity at both the NMDA and trans-ACPD or metabotropic quisqualate receptors.
Targets(IC50)	NMDAR,iGluR
In vitro	Ibotenic acid is toxic to cortical neurons exposes for 5 min with an EC ₅₀ =77.3 μM as measured by the release of lactate dehydrogenase to the culture media[1].

Solubility Information

Solubility	DMSO: 140 mg/mL (885.46 mM),Sonication is recommended. H ₂ O: 5 mg/mL (31.62 mM),Sonication and heating are recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	6.3247 mL	31.6236 mL	63.2471 mL
5 mM	1.2649 mL	6.3247 mL	12.6494 mL
10 mM	0.6325 mL	3.1624 mL	6.3247 mL
50 mM	0.1265 mL	0.6325 mL	1.2649 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Zinkand WC, et al. Ibotenic acid mediates neurotoxicity and phosphoinositide hydrolysis by independent receptormechanisms. Mol Chem Neuropathol. 1992 Feb-Apr;16(1-2):1-10.

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