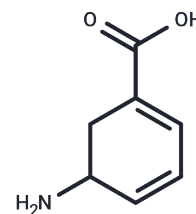


Gabaculine HCl

Chemical Properties

CAS No. :	59556-17-1
Formula:	C7H10ClNO2
Molecular Weight:	175.61
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.

HCl



Biological Description

Description	Gabaculine is an irreversible inhibitor of GABA transaminase (GABA-T; Ki: 2.9 μM). Gabaculine alters plastid development and differentially affects the abundance of plastid-encoded DPOR and nuclear-encoded GluTR.
Targets(IC50)	Others,GABA Receptor

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	5.6944 mL	28.4722 mL	56.9444 mL
5 mM	1.1389 mL	5.6944 mL	11.3889 mL
10 mM	0.5694 mL	2.8472 mL	5.6944 mL
50 mM	0.1139 mL	0.5694 mL	1.1389 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

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Demko V, Pavlovic A, Hudák J. Gabaculine alters plastid development and differentially affects abundance of plastid-encoded DPOR and nuclear-encoded GluTR and FLU-like proteins in spruce cotyledons. *J Plant Physiol.* 2010 Jun 15;167(9):693-700. doi: 10.1016/j.jplph.2009.12.008. Epub 2010 Feb 2. PubMed PMID: 20129699.

Orriss GL, Patel TR, Sorensen J, Stetefeld J. Absence of a catalytic water confers resistance to the neurotoxin gabaculine. *FASEB J.* 2010 Feb;24(2):404-14. doi: 10.1096/fj.09-138297. Epub 2009 Sep 28. PubMed PMID: 19786580.

Irifune M, Katayama S, Takarada T, Shimizu Y, Endo C, Takata T, Morita K, Dohi T, Sato T, Kawahara M. MK-801 enhances gabaculine-induced loss of the righting reflex in mice, but not immobility. *Can J Anaesth.* 2007 Dec;54(12):998-1005. PubMed PMID: 18056209.

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