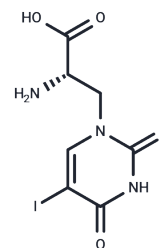


5-Iodowillardiine

Chemical Properties

CAS No. :	140187-25-3
Formula:	C7H8IN3O4
Molecular Weight:	325.06
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	5-Iodowillardiine is a selective agonist for specific kainate receptor subunits that robustly activates GluK1 (GluR5) and GluK5 (KA2)-containing receptors while displaying minimal activity at AMPA receptors and no measurable agonism toward GluK2 (GluR6) subunits. Despite its excitotoxic neurotoxic activity in vivo, 5-Iodowillardiine remains a powerful experimental tool for dissecting kainate receptor subtype distribution, synaptic function, and excitatory neurotransmission in the brain and spinal cord.
Targets(IC50)	Others, GluR, iGluR
In vitro	In pharmacological receptor assays, (S)-(-)-5-Iodowillardiine activated homomeric GluK1 receptors with high potency, showing an EC50 in the low micromolar range[1].

Solubility Information

Solubility	1.1eq. NaOH: <8.12 mg/mL, Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.0764 mL	15.3818 mL	30.7636 mL
5 mM	0.6153 mL	3.0764 mL	6.1527 mL
10 mM	0.3076 mL	1.5382 mL	3.0764 mL
50 mM	0.0615 mL	0.3076 mL	0.6153 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

Zanatta N, et al. N-alkylation of 4-trichloromethylpyrimidinones: synthesis of some new and interesting modified nucleoside analogues[J]. Organic Chemistry Insights, 2009, 2: 7.

Swanson G, et al Kainate receptors exhibit differential sensitivities to (S)-5-iodowillardiine[J]. Molecular pharmacology, 1998, 53(5): 942-949.

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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481