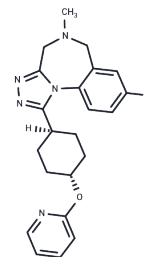


Balovaptan

Chemical Properties

CAS No. :	1228088-30-9
Formula:	C ₂₂ H ₂₄ ClN ₅ O
Molecular Weight:	409.91
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	Balovaptan (RG7314) is a highly potent and selective brain-penetrant vasopressin 1a (hV1a) receptor antagonist, with Kis of 1 and 39 nM for human (hV1a) and mouse (mV1a) receptors. It is used for the research of autism.
Targets(IC50)	Vasopressin Receptor
In vitro	Balovaptan (RG7314) is a highly potent and selective brain-penetrant vasopressin 1a (hV1a) receptor antagonist, with Kis of 1 and 39 nM for hV1a and mhV1a. It is used for the research of autism. Balovaptan shows >30000-fold selectivity for hV1a over hV2 receptors, 9891-fold selectivity over hOTR (human oxytocin receptor)[1].

Solubility Information

Solubility	DMSO: 62.5 mg/mL (152.47 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (4.88 mM), Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.4396 mL	12.1978 mL	24.3956 mL
5 mM	0.4879 mL	2.4396 mL	4.8791 mL
10 mM	0.244 mL	1.2198 mL	2.4396 mL
50 mM	0.0488 mL	0.244 mL	0.4879 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

Ratni H, et al. Discovery of highly selective brain-penetrant vasopressin 1a antagonists for the potential treatment of autism via a chemogenomic and scaffold hopping approach. J Med Chem. 2015 Mar 12;58(5):2275-89.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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