Product Data Sheet

Balovaptan

Cat. No.: HY-109024

CAS No.: 1228088-30-9

Molecular Formula: $C_{22}H_{24}ClN_5O$ Molecular Weight: 409.91

Target: Vasopressin Receptor
Pathway: GPCR/G Protein

Storage: Powder -20°C 3 years

4°C 2 years

In solvent -80°C 2 years

-20°C 1 year

SOLVENT & SOLUBILITY

In Vitro

DMSO: 50 mg/mL (121.98 mM; ultrasonic and warming and heat to 60°C)

Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg	10 mg
	1 mM	2.4396 mL	12.1978 mL	24.3956 mL
	5 mM	0.4879 mL	2.4396 mL	4.8791 mL
	10 mM	0.2440 mL	1.2198 mL	2.4396 mL

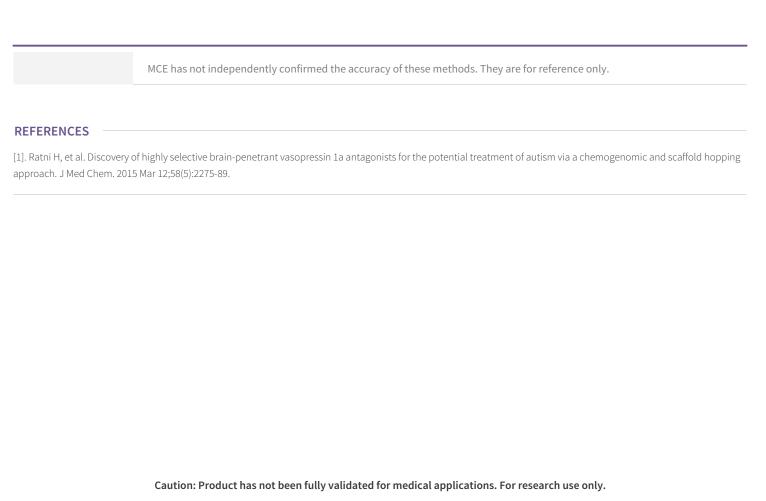
Please refer to the solubility information to select the appropriate solvent.

In Vivo

- 1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (6.10 mM); Clear solution
- 2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE- β -CD in saline) Solubility: \geq 2.5 mg/mL (6.10 mM); Clear solution
- 3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (6.10 mM); Clear solution

BIOLOGICAL ACTIVITY

Description	Balovaptan (RG7314) is an orally available, selective brain-penetrant vasopressin 1a (hV1a) receptor antagonist, with K _i s of 1 and 39 nM for human (hV1a) and mouse (mV1a) receptors, and is used for the research of autism.
IC ₅₀ & Target	Ki: 1 nM (hV1a), 39 nM (mV1a) ^[1]
In Vitro	Balovaptan (RG7314) shows >30000-fold selectivity for hV1a over hV2 receptors, 9891-fold selectivity over hOTR (human oxytocin receptor) ^[1] .



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