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Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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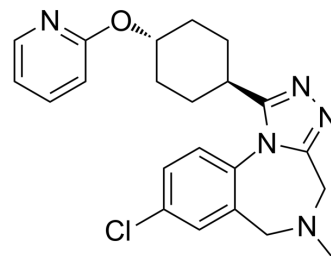
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Balovaptan

Cat. No.:	HY-109024		
CAS No.:	1228088-30-9		
Molecular Formula:	C ₂₂ H ₂₄ ClN ₅ O		
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 Concentration	Mass	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: ≥ 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] .

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. 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.

Caution: Product has not been fully validated for medical applications. For research use only.

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