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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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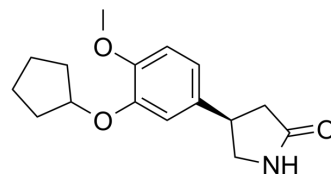
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(R)-(-)-Rolipram

Cat. No.:	HY-16900A
CAS No.:	85416-75-7
Molecular Formula:	C ₁₆ H ₂₁ NO ₃
Molecular Weight:	275.34
Target:	Phosphodiesterase (PDE)
Pathway:	Metabolic Enzyme/Protease
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 : 100 mg/mL (363.19 mM; Need ultrasonic)				
	Preparing Stock Solutions	Solvent Concentration Mass	1 mg	5 mg	10 mg
		1 mM	3.6319 mL	18.1594 mL	36.3187 mL
		5 mM	0.7264 mL	3.6319 mL	7.2637 mL
		10 mM	0.3632 mL	1.8159 mL	3.6319 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 (9.08 mM); Clear solution				
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (9.08 mM); Clear solution				
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (9.08 mM); Clear solution				

BIOLOGICAL ACTIVITY

Description	(R)-(-)-Rolipram is the R-enantiomer of Rolipram. Rolipram is a selective inhibitor of phosphodiesterases PDE4 with IC ₅₀ of 3 nM, 130 nM and 240 nM for PDE4A, PDE4B, and PDE4D, respectively.
In Vitro	The increase of cAMP synthesis with the adenylate cyclase activator forskolin or the decrease of cAMP hydrolysis by the phosphodiesterase inhibitors Isobutylmethylxanthine (IBMX) and (R)-(-)-Rolipram (MedChem Express) suppresses caspase-1 cleavage and IL-1β secretion in a dose-dependent manner ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

- Immunity. 2016 Oct 18;45(4):944.
- Patent. US20180263995A1.

See more customer validations on www.MedChemExpress.com

REFERENCES

[1]. Guo C, et al. Bile Acids Control Inflammation and Metabolic Disorder through Inhibition of NLRP3 Inflammasome. Immunity. 2016 Oct 18;45(4):944.

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

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