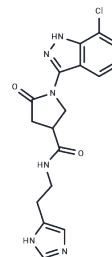


PAC1R antagonist 1

Chemical Properties

CAS No. :	2305204-24-2
Formula:	C ₁₇ H ₁₇ ClN ₆ O ₂
Molecular Weight:	372.81
Storage:	Store at low temperature Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



Biological Description

Description	PAC1R antagonist 1 is an orally active PAC1 receptor antagonist that inhibits abnormal pain induced by pituitary adenylate cyclase-activating polypeptide (PACAP) and nerve damage, and may be used in the study of neoplasms and immune-related disorders.
Targets(IC50)	PACAP

Solubility Information

Solubility	DMSO: 20 mg/mL (53.65 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 (5.36 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	2.6823 mL	13.4117 mL	26.8233 mL
5 mM	0.5365 mL	2.6823 mL	5.3647 mL
10 mM	0.2682 mL	1.3412 mL	2.6823 mL
50 mM	0.0536 mL	0.2682 mL	0.5365 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

Takasaki I, et al. Synthesis of a novel and potent small-molecule antagonist of PAC1 receptor for the treatment of neuropathic pain. Eur J Med Chem. 2020 Jan 15;186:111902.

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