

AN3199

Chemical Properties

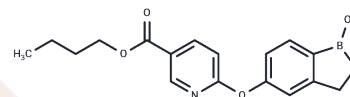
CAS No. : 1187187-10-5

Formula: C₁₇H₁₈BN₂O₅

Molecular Weight: 327.14

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	AN3199 is a selective inhibitor of PDE4 with an IC ₅₀ of 94.5 nM.
Targets(IC ₅₀)	PDE

Solubility Information

Solubility	DMSO: 90 mg/mL (275.11 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: 3.3 mg/mL (10.09 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	3.0568 mL	15.284 mL	30.568 mL
5 mM	0.6114 mL	3.0568 mL	6.1136 mL
10 mM	0.3057 mL	1.5284 mL	3.0568 mL
50 mM	0.0611 mL	0.3057 mL	0.6114 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

Zhang YK, et al. Design and synthesis of boron-containing PDE4 inhibitors using soft-drug strategy for potential dermatologic anti-inflammatory application. *Bioorg Med Chem Lett*. 2010 Apr 1;20(7):2270-4.

Akama Tsutomu, et al. Preparation of boron-containing small molecules as anti-inflammatory agents. From PCT Int. Appl. (2009), WO 2009111676 A2 20090911.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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