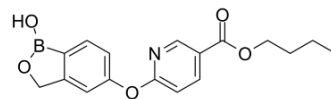


AN3199

Cat. No.:	HY-19830		
CAS No.:	1187187-10-5		
Molecular Formula:	C ₁₇ H ₁₈ BNO ₅		
Molecular Weight:	327.14		
Target:	Phosphodiesterase (PDE)		
Pathway:	Metabolic Enzyme/Protease		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (305.68 mM; Need ultrasonic)					
		Solvent Concentration	Mass	1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM		3.0568 mL	15.2840 mL	30.5680 mL
		5 mM		0.6114 mL	3.0568 mL	6.1136 mL
		10 mM		0.3057 mL	1.5284 mL	3.0568 mL
Please refer to the solubility information to select the appropriate solvent.						
In Vivo	<ol style="list-style-type: none"> Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (7.64 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (7.64 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (7.64 mM); Clear solution 					

BIOLOGICAL ACTIVITY

Description	AN3199 is a PDE4 inhibitor with an IC ₅₀ of 94.5 nM. AN3199 can be used for the research of inflammation-associated diseases such as asthma and chronic obstructive pulmonary disease (COPD) ^{[1][2]} .
IC ₅₀ & Target	PDE4 94.5 nM (IC ₅₀)
In Vitro	AN3199 (compound 11) (1 h) disappears (98.0%) is mainly converts to corresponding acid (76.6) in mouse plasma ^[1] .

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

REFERENCES

- [1]. 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.
- [2]. Akama Tsutomu, et al. Preparation of boron-containing small molecules as anti-inflammatory agents. *From PCT Int. Appl.* (2009), WO 2009111676 A2 20090911.
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Caution: Product has not been fully validated for medical applications. For research use only.

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