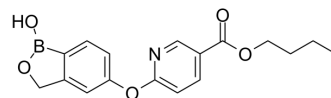


## AN3199

<b>Cat. No.:</b>	HY-19830		
<b>CAS No.:</b>	1187187-10-5		
<b>Molecular Formula:</b>	C <sub>17</sub> H <sub>18</sub> BN <sub>2</sub> O <sub>5</sub>		
<b>Molecular Weight:</b>	327.14		
<b>Target:</b>	Phosphodiesterase (PDE)		
<b>Pathway:</b>	Metabolic Enzyme/Protease		
<b>Storage:</b>	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	2 years
		-20°C	1 year



### SOLVENT & SOLUBILITY

<b>In Vitro</b>	DMSO : 100 mg/mL (305.68 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	<b>Preparing Stock Solutions</b>	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.					
<b>In Vivo</b>	<ol style="list-style-type: none"> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 40% PEG300 &gt;&gt; 5% Tween-80 &gt;&gt; 45% saline Solubility: ≥ 2.5 mg/mL (7.64 mM); Clear solution</li> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (7.64 mM); Clear solution</li> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 90% corn oil Solubility: ≥ 2.5 mg/mL (7.64 mM); Clear solution</li> </ol>				

### BIOLOGICAL ACTIVITY

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

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

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## REFERENCES

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- [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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