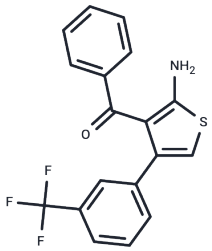
Data Sheet (Cat.No.T29112)

TargetMol

VPC171

Chemical Properties



CAS No. : 1018830-99-3

Formula: C18H12F3NOS

Molecular Weight: 347.35

Appearance: Solid

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Biological Description

Description	VPC171 is a novel adenosine A1 receptor positive allosteric modulator (PAM).
Targets(IC50)	Adenosine Receptor
In vivo	VCP171 produced a greater inhibition of eEPSC amplitude of nerve-injury versus control animals in both lamina I and lamina II neurons[2].

Solubility Information

Solubility	DMSO: 55 mg/mL (158.34 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.8789 mL	14.3947 mL	28.7894 mL
5 mM	0.5758 mL	2.8789 mL	5.7579 mL
10 mM	0.2879 mL	1.4395 mL	2.8789 mL
50 mM	0.0576 mL	0.2879 mL	0.5758 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.

Reference

Aurelio L, et al. Allosteric modulators of the adenosine A1 receptor: synthesis and pharmacological evaluation of 4-substituted 2-amino-3-benzoylthiophenes. J Med Chem. 2009 Jul 23;52(14):4543-7.

Imlach WL, et al. A Positive Allosteric Modulator of the Adenosine A1 Receptor Selectively Inhibits Primary Afferent Synaptic Transmission in a Neuropathic Pain Model. Mol Pharmacol. 2015 Sep;88(3):460-8.

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