

Product Name: Preladenant Revision Date: 01/10/2021

# **Product Data Sheet**

# Preladenant

Cat. No.:	A3735	
CAS No.:	377727-87-2	
Formula:	C25H29N9O3	
M.Wt:	503.56	
Synonyms:	SCH-420814;SCH 420814;SCH420814	
Target:	GPCR/G protein	
Pathway:	Adenosine Receptor	
Storage:	Store at -20°C	

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## Solvent & Solubility

	insoluble in H2O; ins	insoluble in H2O; insoluble in EtOH; $\geq$ 7.3 mg/mL in DMSO				
In Vitro	Preparing Stock Solutions	Mass Solvent Concentration	1mg	5mg	10mg	
	STOCK SOLUTIONS	1 mM	1.9859 mL	9.9293 mL	19.8586 mL	
	al9	5 mM	0.3972 mL	1.9859 mL	3.9717 mL	
	PENE	10 mM	0.1986 mL	0.9929 mL	1.9859 mL	

Please refer to the solubility information to select the appropriate solvent.

## **Biological Activity**

Shortsummary

Adenosine A2A receptor antagonist

#### IC<sub>50</sub> & Target

In Vitro

Cell Viability Assay	P
Cell Line:	Primary actin-GFP microglia
Preparation method:	The solubility of this compound in DMSO is >10 mM. General tips for obtaining
	a higher concentration: Please warm the tube at 37 °C for 10 minutes and/o
	shake it in the ultrasonic bath for a while.Stock solution can be stored below
	-20°C for several months.
Reacting conditions:	1 μM, 15 min

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	Applications:	Three-dimensional cell reconstructions from primary actin-GFP microglia
		grown in Matrigel were used to determine cell ramification (expressed as
		surface area-to-volume ratios) in response to preladenant treatment.
		Preladenant at concentration of 1 µM prevented the adenosine-induced
		process retraction in activated microglia.
	Animal experiment	<u>alo</u>
	Animal models:	Male CD rats
	Dosage form:	Haloperidol (1 mg/kg s.c.) was administered to induce catalepsy in the rats.
		Preladenant was administered orally after the 30-min baseline measure, and
		catalepsy was retested 1 and 4 h after administration.
In Vivo	Applications:	Preladenant dose-dependently attenuated the cataleptic effects of haloperidol
		1h [F(3,20) = 5.0, p < 0.01] and 4 h [F(3,20) = 9.8, p < 0.01] after dosing, with
		statistically significant effects at doses of 0.3 and 1 mg/kg at both time points.
	Other notes:	Please test the solubility of all compounds indoor, and the actual solubility may
	BIO	slightly differ with the theoretical value. This is caused by an experimental
	PERM	system error and it is normal.
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### **Product Citations**

See more customer validations on www.apexbt.com.



[1] Gyoneva S, Davalos D, Biswas D, et al. Systemic inflammation regulates microglial responses to tissue damage in vivo. Glia, 2014.

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[2] Hodgson R A, Bertorelli R, Varty G B, et al. Characterization of the potent and highly selective A2A receptor antagonists preladenant and SCH 412348 [7-[2-[4-2, 4-difluorophenyl]-1-piperazinyl] ethyl]-2-(2-furanyl)-7H-pyrazolo [4, 3-e][1, 2, 4] triazolo [1, 5-c] pyrimidin-5-amine] in rodent models of movement disorders and depression. Journal of Pharmacology and Experimental Therapeutics, 2009, 330(1): 294-303.

#### Caution

#### FOR RESEARCH PURPOSES ONLY.

#### NOT FOR HUMAN, VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

Specific storage and handling information for each product is indicated on the product datasheet. Most APExBIO products are stable under the recommended conditions. Products are sometimes shipped at a temperature that differs from the recommended storage temperature. Shortterm storage of many products are stable in the short-term at temperatures that differ from that required for long-term storage. We ensure that the product is shipped under conditions that will maintain the quality of the reagents. Upon receipt

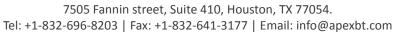
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of the product, follow the storage recommendations on the product data sheet.





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