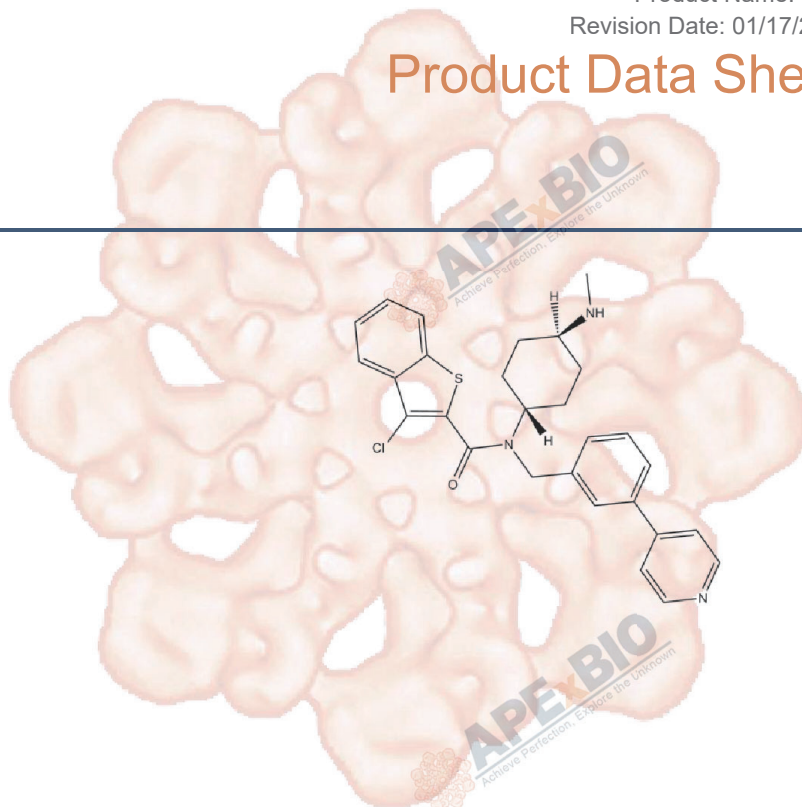


Product Data Sheet

SAG

Cat. No.:	B5837
CAS No.:	912545-86-9
Formula:	C28H28ClN3OS
M.Wt:	490.06
Synonyms:	
Target:	Stem Cell
Pathway:	Hedgehog
Storage:	Store at -20°C



Solvent & Solubility

≥24.5 mg/mL in DMSO; ≥16.33 mg/mL in H₂O with gentle warming and ultrasonic; ≥2.61 mg/mL in EtOH with gentle warming and ultrasonic

In Vitro

Preparing Stock Solutions	Solvent	Mass		
		1mg	5mg	10mg
	Concentration			
	1 mM	2.0406 mL	10.2028 mL	20.4057 mL
	5 mM	0.4081 mL	2.0406 mL	4.0811 mL
	10 mM	0.2041 mL	1.0203 mL	2.0406 mL

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

Biological Activity

Shortsummary

Hh and Smo agonist

 IC₅₀ & Target

Cell Viability Assay

In Vitro

Cell Line: Shh-LIGHT2 cell line

Preparation method:

The solubility of this compound in DMSO is >24.5mg/mL. General tips for obtaining a higher concentration: Please warm the tube at 37°C for 10 minutes and/or shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

	Reacting conditions:	0.1~100 μ M
	Applications:	SAG induces Hh pathway activation in a mouse cultured cell with an EC50 of ~3 nM, however, the pathway activity decreases dramatically as SAG concentration surpasses 1 μ M.
In Vivo	Animal experiment	
	Animal models:	P4 wild-type mice
	Dosage form:	SAG (20 μ g/g) with prednisolone (0.67 μ g/g), daily, 7 days
	Applications:	SAG at the treatment dose effectively prevented glucocorticoids-induced neonatal cerebellar developmental abnormalities in the mouse.
	Other notes:	Please test the solubility of all compounds indoor, and the actual solubility may slightly differ with the theoretical value. This is caused by an experimental system error and it is normal.

Product Citations

See more customer validations on www.apexbt.com.

References

- [1] Chen JK, Taipale J, Young KE et al. Small molecule modulation of Smoothened activity. Proc Natl Acad Sci U S A. 2002 Oct 29;99(22):14071-6.
- [2] Heine VM, Griveau A, Chapin C et al. A small-molecule smoothened agonist prevents glucocorticoid-induced neonatal cerebellar injury. Sci Transl Med. 2011 Oct 19;3(105):105ra104.

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

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