

Product Name: SNS-032 (BMS-387032)

Revision Date: 01/10/2021

Product Data Sheet

SNS-032 (BMS-387032)

Cat. No.: A1980

CAS No.: 345627-80-7

Formula: C17H24N4O2S2

M.Wt: 380.53

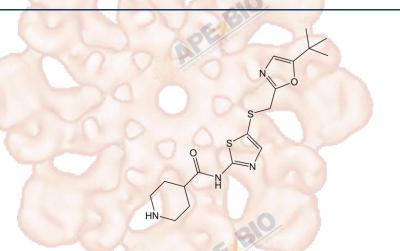
Synonyms:

Pathway:

Target: Cell Cycle/Checkpoint

Cyclin-Dependent Kinases

Storage: Store at -20°C



Solvent & Solubility

insoluble in H2O; ≥19.05 mg/mL in DMSO; ≥2.63 mg/mL in EtOH with ultrasonic

In Vitro

Preparing Stock Solutions	Solvent Concentration	1mg	5mg	10mg
	1 mM	2.6279 mL	13.1396 mL	26.2791 mL
	5 mM	0.5256 mL	2.6279 mL	5.2558 mL
	10 mM	0.2628 mL	1.3140 mL	2.6279 mL

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

Biological Activity

Reacting conditions:

Shortsummary	CDK inhibitor	CDK inhibitor		
IC ₅₀ & Target	48 nM (CDK2), 62 nM (CI	48 nM (CDK2), 62 nM (CDK7), 4 nM (CDK9)		
	Cell Viability Assay	The state of the s		
	Cell Line:	Chronic lymphocytic leukemia (CLL) cells		
	Preparation method:	The solubility of this compound in DMSO is >10 mM. General tips for obtaining		
In Vitro		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.		

0.1, 0.3 and 1 μ M; 6 or 24 hrs

	Applications:	CLL cells treated with SNS-032 for 6 or 24 hrs showed a decrease in the		
		phosphorylation of Ser2 and Ser5 of the CTD of RNA Pol II, which appeared to		
		be both time- and concentration- dependent, and remarkably consistent among		
		samples. For the phosphorylation of Ser2, the inhibition of SNS-032 was		
		greater than that for the phosphorylation of Ser5, this was consistent with the		
	210	fact that IC50 for the inhibition of CDK9 was lower compared with that for the		
	OE PROTECTION OF THE PROPERTY	inhibition of CDK7 (4 nM vs 62 nM). After 6 hrs of SNS-032 exposure, protein		
	And the state of t	levels of CDK7 and CDK9 were stable, but declined at 24 hrs.		
	Animal experiment			
	Animal models:	MDA-MB-435 xenograft mouse model		
	Dosage form:	15 mg/kg; i.p.; every 3 days for approximately one month		
	Applications:	In SNS-032-treated nude mice, the volume of the xenografted breast tumor		
In Vivo		was significantly inhibited by 65.77% after 30 days of drug administration (eight		
		SNS-032 injections).		
	Other notes:	Please test the solubility of all compounds indoor, and the actual solubility may		
	OE	slightly differ with the theoretical value. This is caused by an experimental		
	P. Control	system error and it is normal.		

Product Citations

- 1. Cingöz O, Goff SP. "Cyclin-dependent kinase activity is required for type linterferon production." Proc Natl Acad Sci U S A. 2018 Mar 27;115(13):E2950-E2959.PMID:29507205
- 2. Posternak V, Ung MH, et al. "MYC Mediates mRNA Cap Methylation of Canonical Wnt/β-Catenin Signaling Transcripts By Recruiting CDK7 and RNAMethyltransferase." Mol Cancer Res. 2017 Feb;15(2):213-224.PMID:27899423

See more customer validations on www.apexbt.com.

References

- [1]. Chen R., Wierda W.G., Chubb S., et al. Mechanism of action of SNS032, a novel cyclin-dependent kinase inhibitor, in chronic lymphocytic leukemia. Blood, 2009, 113(19):4637-4645.
- [2]. Xie G, Tang H, Wu S, Chen J, Liu J, Liao C. The cyclin-dependent kinase inhibitor SNS-032 induces apoptosis in breast cancer cells via depletion of Mcl-1 and X-linked inhibitor of apoptosis protein and displays antitumor activity in vivo. Int J Oncol. 2014 Aug;45(2):804-12.

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





APExBIO Technology

www.apexbt.com

7505 Fannin street, Suite 410, Houston, TX 77054. Tel: +1-832-696-8203 | Fax: +1-832-641-3177 | Email: info@apexbt.com



APENEIO.



APE BIO

APE BIO



APEVEIO.