

Product Name: KN-62 Revision Date: 02/06/2023

Product Data Sheet

KN-62

A8180 Cat. No.:

CAS No.: 127191-97-3

Formula: C38H35N5O6S2

M.Wt: 721.9

Synonyms:

In Vitro

Others Target:

Pathway: CaM kinase II

Storage: Desiccate at -20°C

Solvent & Solubility

≥36.1 mg/mL in DMSO; insoluble in H2O; ≥15.88 mg/mL in EtOH with ultrasonic

Mass Solvent 1mg 5mg 10mg Preparing Concentration Stock Solutions 1 mM 1.3852 mL 6.9262 mL 13.8523 mL 1.3852 mL 5 mM 0.2770 mL 2.7705 mL 10 mM 0.1385 mL 0.6926 mL 1.3852 mL

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

Biological Activity

	0.9 μM (Calmodulin protein k	inasa II)	
_		0.9 μM (Calmodulin protein kinase II)	
	Cell Viability Assay		
	Cell Line:	K562 cells	
In Vitro	Preparation method:	The solubility of this compound in DMSO is > 36.1 mg/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:	1, 2, 5 or 10 μM; 24 or 48 hrs	

	Applications:	KN-62 inhibited the cell growth of K562 cells in a dose-dependent manner. Two
		days after the treatment of 10 μ M KN-62, 63% K562 cells were inhibited. Flow
		cytometric analysis showed that KN-62 (10 μM, 24 hrs) caused an
		accumulation of K562 cells in S phase. Immunoblotting studies indicated that
	Januari Carlo	CaMKII was inhibited in these K562 cells.
In Vivo	Animal experiment	
	Applications:	and the state of t

Product Citations

See more customer validations on www.apexbt.com.

References

[1]. Tokumitsu H, Chijiwa T, Hagiwara M, Mizutani A, Terasawa M, Hidaka H. KN-62, 1-[N,O-bis(5-isoquinolinesulfonyl)-N-methyl-L-tyrosyl]-4-phenylpiperazi ne, a specific inhibitor of Ca2+/calmodulin-dependent protein kinase II. J Biol Chem. 1990 Mar 15;265(8):4315-20.

[2]. Minami H, Inoue S, Hidaka H. The effect of KN-62, Ca2+/calmodulin dependent protein kinase II inhibitor on cell cycle. Biochem Biophys Res Commun. 1994 Feb 28;199(1):241-8.

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.

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