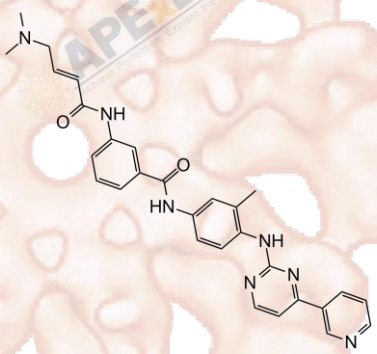
Product Data Sheet

JNK-IN-8



Cat. No.:	A3520
CAS No.:	1410880-22-6
Formula:	C29H29N7O2
M.Wt:	507.59
Synonyms:	
Target:	MAPK Signaling
Pathway:	JNK
Storage:	Store at -20°C

Solvent & Solubility

In Vitro

⩾25.4 mg/mL in DMSO; insoluble in H2O; ⩾9.24 mg/mL in EtOH with gentle warming and ultrasonic

Preparing Stock Solutions

Mass / Solvent / Concentration	1mg	5mg	10mg
1 mM	1.9701 mL	9.8505 mL	19.7009 mL
5 mM	0.3940 mL	1.9701 mL	3.9402 mL
10 mM	0.1970 mL	0.9850 mL	1.9701 mL

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

Biological Activity

Shortsummary	JNK inhibitor, selective and irreversible
IC_{50} & Target	4.67 nM (JNK1), 18.7 nM (JNK2), 980 pM (JNK3)

In Vitro

Cell Viability Assay

Cell Line:	HEK293-ILR1 cells
Preparation method:	Soluble in DMSO > 25.4mg/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:	0.1,0.3,1,3μM for 3hr

	Applications:	JNK-IN-8 was an extremely potent inhibitor of enzymatic and cellular JNK(c-Jun N-terminal kinase) that inhibited phosphorylation of c-Jun, the direct substrate of JNK kinase. The superior potency and selectivity of JNK-IN-8 in the HEK293 cells suggested that the compound would likely serve as very useful pharmacological probes of JNK-dependent cellular phenomena.
In Vivo	**Animal experiment**	
	Animal models:	Male KM mice (CL)(8-week-old)
	Dosage form:	3μg/μL, injection
	Applications:	JNK-IN-8, a specific inhibitor of JNK pathway, could reduce the neuronal apoptosis significantly as compared to the DMSO group after brain injury in the mice.
	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]. Zhang T1, Inesta-Vaquera F, et al, Discovery of potent and selective covalent inhibitors of JNK. Chemical Biology. 2012, 19(1):140-154.

[2]. Li D1, Liu N1,et al, Protective effect of resveratrol against nigrostriatal pathway injury in striatum via JNK pathway. Brain Res. 2017 Jan 1;1654(Pt A):1-8. doi: 10.1016/j.brainres.2016.10.013. Epub 2016 Oct 18.

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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