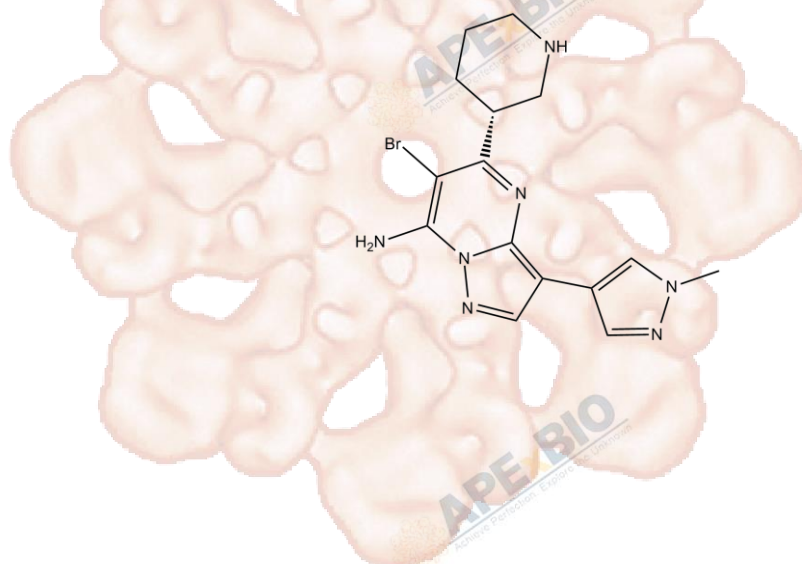


Product Data Sheet

MK-8776 (SCH-900776)

Cat. No.:	A8477
CAS No.:	891494-63-6
Formula:	C ₁₅ H ₁₈ BrN ₇
M.Wt:	376.25
Synonyms:	
Target:	Cell Cycle/Checkpoint
Pathway:	Chk
Storage:	Store at -20°C



Solvent & Solubility

insoluble in H₂O; insoluble in EtOH; ≥18.8 mg/mL in DMSO

In Vitro

Preparing Stock Solutions	Solvent	Mass		
		1mg	5mg	10mg
	Concentration			
	1 mM	2.6578 mL	13.2890 mL	26.5781 mL
	5 mM	0.5316 mL	2.6578 mL	5.3156 mL
	10 mM	0.2658 mL	1.3289 mL	2.6578 mL

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

Biological Activity

Shortsummary

Chk1 inhibitor, potent and selective

IC₅₀ & Target

3 nM (Chk1), 0.16 μM (CDK2), 1.5 μM (Chk2)

In Vitro

Cell Viability Assay

Cell Line:	U2OS cells
Preparation method:	The solubility of this compound in DMSO is >18.8mg/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:	2h

	Applications:	In U2OS cells, SCH 900776 induced a dose-dependent loss of DNA replication capability 24 hours after hydroxyurea exposure. SCH 900776 enhanced apoptosis for at least 48 hours following release from hydroxyurea blockade.
In Vivo	Animal experiment	
	Animal models:	BALB/c mice bearing A2780 xenografts
	Dosage form:	4-32 mg/kg
	Applications:	SCH-900776 (8 mg/kg) led to enhanced tumor pharmacodynamic and regression responses. SCH 900776 (16 and 32 mg/kg) induced incremental improvements in tumor response.
	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

1. Bourgeois A, Bonnet S, et al. "Inhibition of CHK 1 (Checkpoint Kinase 1) Elicits Therapeutic Effects in Pulmonary Arterial Hypertension." *Arterioscler Thromb Vasc Biol.* 2019 Aug;39(8):1667-1681.PMID:31092016

See more customer validations on www.apexbt.com.

References

- [1] Guzi T J, Paruch K, Dwyer M P, et al. Targeting the replication checkpoint using SCH 900776, a potent and functionally selective CHK1 inhibitor identified via high content screening[J]. *Molecular cancer therapeutics*, 2011, 10(4): 591-602.

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.



APEx^xBIO 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

