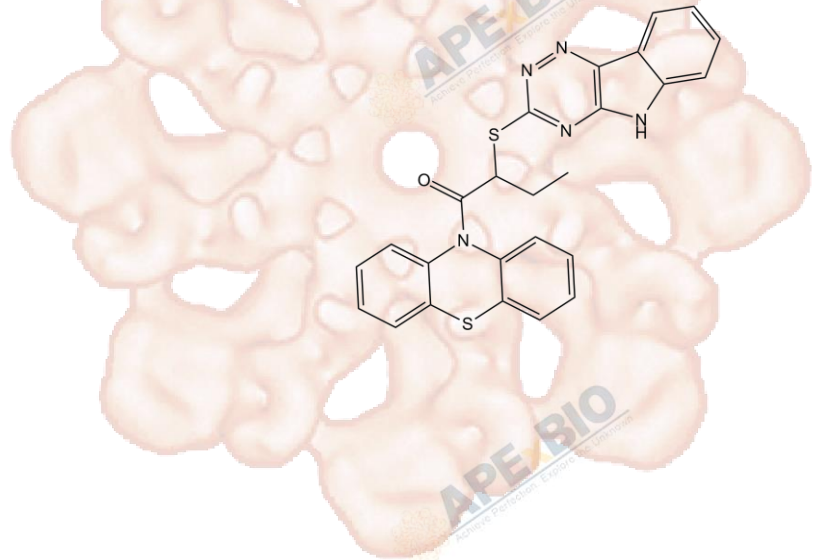


Product Data Sheet

Inauhzin

Cat. No.:	B3272
CAS No.:	309271-94-1
Formula:	C ₂₅ H ₁₉ N ₅ O ₂ S
M.Wt:	469.58
Synonyms:	
Target:	
Pathway:	
Storage:	Store at -20°C



Solvent & Solubility

≥23.5 mg/mL in DMSO; insoluble in H₂O; insoluble in EtOH

In Vitro

Preparing Stock Solutions	Solvent	Mass		
		1mg	5mg	10mg
	Concentration			
	1 mM	2.1296 mL	10.6478 mL	21.2956 mL
	5 mM	0.4259 mL	2.1296 mL	4.2591 mL
	10 mM	0.2130 mL	1.0648 mL	2.1296 mL

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

Biological Activity

Shortsummary

SIRT1 inhibitor

IC₅₀ & Target

In Vitro

Cell Viability Assay

Cell Line: H460, H1299, A549, HT29 and WI38

Preparation method: The solubility of this compound in DMSO is > 23.5 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: 2μM, 18h

	Applications:	Inauhzin dose-dependently inhibited cell growth in different p53-containing human cancer cells including H460, H1299, A549, HT29 and WI38. Inauhzin effectively reactivated p53 by inhibiting SIRT1 activity, promoted p53-dependent apoptosis of human cancer cells without causing apparently genotoxic stress. Moreover, INZ stabilized p53 by increasing p53 acetylation and preventing MDM2-mediated ubiquitylation of p53 in cells. INZ inhibited cell proliferation, induced senescence and tumour-specific apoptosis.
In Vivo	Animal experiment	
	Animal models:	Female SCID mice bearing H460 or HCT116 xenografts
	Dosage form:	Intraperitoneal injection, 18h, 2µM
	Applications:	Inauhzin repressed the growth of xenograft tumours derived from p53-harboring H460 and HCT116 cells without causing apparent toxicity to normal tissues and the tumour-bearing SCID 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 Q, Zeng S X, Zhang Y, et al. A small molecule Inauhzin inhibits SIRT1 activity and suppresses tumour growth through activation of p53[J]. EMBO molecular medicine, 2012, 4(4): 298-312.

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. Short-term 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 BIO 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

