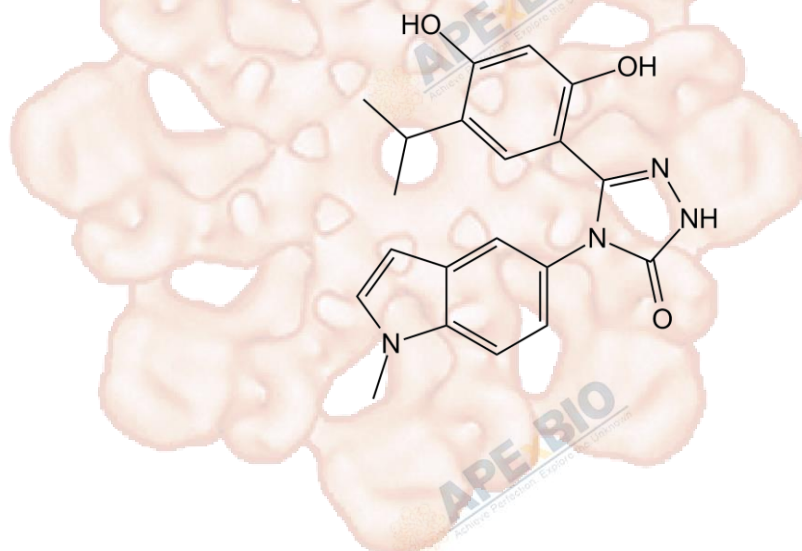


Product Data Sheet

GanetespiB (STA-9090)

Cat. No.:	A4385
CAS No.:	888216-25-9
Formula:	C ₂₀ H ₂₀ N ₄ O ₃
M.Wt:	364.4
Synonyms:	STA9090, STA 9090
Target:	Proteases
Pathway:	HSP
Storage:	Store at -20°C



Solvent & Solubility

insoluble in H₂O; ≥18.22 mg/mL in DMSO; ≥6.4 mg/mL in EtOH with gentle warming and ultrasonic

In Vitro

Preparing Stock Solutions	Solvent	Mass		
		1mg	5mg	10mg
	Concentration			
	1 mM	2.7442 mL	13.7212 mL	27.4424 mL
	5 mM	0.5488 mL	2.7442 mL	5.4885 mL
	10 mM	0.2744 mL	1.3721 mL	2.7442 mL

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

Biological Activity

Shortsummary

Hsp90 inhibitor, non-geldanamycin

IC₅₀ & Target

4 nM (HSP90)

In Vitro

Cell Viability Assay

Cell Line: NCI-H1975 and HCC827 cells

Preparation method: The solubility of this compound in DMSO is > 10 mM. 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: 0.001 ~ 1 μM; 5, 15 or 60 mins or 24 hrs

	Applications:	In NCI-H1975 and HCC827 cells, exposure to Ganetespib for only 60 mins resulted in cytotoxicity with IC50 values of 510 and 800 nM, respectively. In NCI-H1975 cells, a 5-minute exposure to Ganetespib still resulted in an IC50 value < 1 µM.
In Vivo	Animal experiment	
	Animal models:	SCID mice bearing NCI-H1395 NSCLC xenografts
	Dosage form:	150 mg/kg; i.v.; once weekly
	Applications:	Ganetespib induced NCI-H1395 tumor regression, with a T/C value of -49%.
	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. White SM, Avantaggiati ML, et al. "YAP/TAZ Inhibition Induces Metabolic and Signaling Rewiring Resulting in Targetable Vulnerabilities in NF2-Deficient Tumor Cells." Dev Cell. 2019 May 6;49(3):425-443.e9.PMID:31063758
2. Karney-Grobe S, Russo A, et al. "HSP90 is a chaperone for DLK and is required for axon injury signaling." Proc Natl Acad Sci U S A. 2018 Oct 16;115(42):E9899-E9908.PMID:30275300
3. Khurana N, Kim H, et al. "Multimodal actions of the phytochemical sulforaphane suppress both AR and AR-V7 in 22Rv1 cells: Advocating a potent pharmaceutical combination against castration-resistant prostate cancer." Oncol Rep. 2017 Aug 30.PMID:28901514
4. Li QQ, Hao JJ, et al. "Proteomic analysis of proteome and histone post-translational modifications in heat shock protein 90 inhibition-mediated bladder cancer therapeutics." Sci Rep. 2017 Mar 15;7(1):201.PMID:28298630

See more customer validations on www.apexbt.com.

References

- [1]. Weiwen Ying, Zhenjian Du, Lijun Sun, Kevin P. Foley, David A. Proia, Ronald K. Blackman, Dan Zhou, Takayo Inoue, Noriaki Tatsuta, Jim Sang, Shuxia Ye, Jamie Acquaviva, Luisa Shin Ogawa, Yumiko Wada, James Barsoum, and Keizo Koya. Ganetespib, a unique triazolone-containing Hsp90 inhibitor, exhibits potent antitumor activity and a superior safety profile for cancer therapy. Mol Cancer Ther 2012; 11: 475-484.

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.



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