



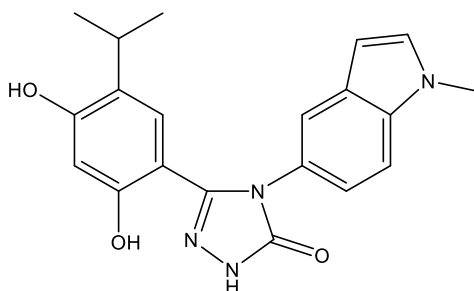
Catalog # 10-4474

Ganetesbib

CAS# 888216-25-9

3-(2,4-Dihydroxy-5-propan-2-ylphenyl)-4-(1-methylindol-5-yl)-1H-1,2,4-triazol-5-one; STA-9090

Lot # FBS2110



Ganetesbib is an inhibitor of heat shock protein 90 (IC_{50} = 19 nM, canine C2 malignant mast cells; 4 nM, canine BR malignant mast cells) binding to the N-terminal ATP site.¹ It displayed potent cytotoxicity against a panel of 57 transformed cell lines of both hematologic and solid tumors with IC_{50} 's between 14 and 280 nM.² Ganetesbib enhanced T-cell-mediated killing of human melanoma cells and potentiated responses to anti-CTLA4 and anti-PD1 therapy via upregulation of interferon response genes.³ In multiple clinical trials for various cancers.

- 1) Lin *et al.* (2008), *The novel HSP90 inhibitor STA-9090 exhibits activity against Kit-dependent and -independent malignant mast cell tumors*; Exp. Hematol. **36** 1266
- 2) Ying *et al.* (2012), *Ganetesbib, a Unique Triazoline-Containing Hsp90 Inhibitor, Exhibits Potent Antitumor Activity and a Superior Safety Profile for Cancer Therapy*; Mol. Cancer Ther. **11** 475
- 3) Mbofung *et al.* (2017), *HSP90 inhibition enhances cancer immunotherapy by upregulating interferon response genes*; Nat. Commun. **8** 451

PHYSICAL DATA

Molecular Weight: 364.40
Molecular Formula: $C_{20}H_{20}N_4O_3$
Purity: >98% by HPLC
NMR: (Conforms)
Solubility: DMSO (>25 mg/ml)
Physical Description: White solid
Storage and Stability: Store as supplied at -20°C for up to 1 year from the date of purchase. Solutions in DMSO may be stored at -20°C for up to 3 months.

Materials provided by Focus Biomolecules are for laboratory research use only and are not intended for human or veterinary applications.

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