

Ganetespib

Catalog No: tcsc0697



Available Sizes

Size: 5mg

Size: 10mg

Size: 50mg

Size: 100mg

Size: 200mg

Size: 500mg



Specifications

CAS No:

888216-25-9

Formula:

$C_{20}H_{20}N_4O_3$

Pathway:

Metabolic Enzyme/Protease;Cell Cycle/DNA Damage

Target:

HSP;HSP

Purity / Grade:

>98%

Solubility:

DMSO : ≥ 32 mg/mL (87.82 mM)

Alternative Names:

STA-9090

Observed Molecular Weight:

364.4

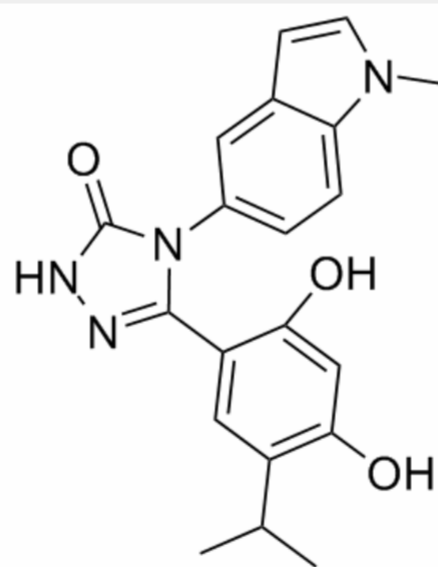
Product Description

Ganetespib is a unique non-geldanamycin heat shock protein 90 (**HSP90**) inhibitor, with antitumor activity.

IC₅₀ & Target: HSP90^[1]

In Vitro: Ganetespib causes depletion of receptor tyrosine kinases, extinguishing of downstream signaling, inhibition of proliferation and induction of apoptosis with IC₅₀ values ranging 2-30 nM in genomically-defined NSCLC cell lines. Ganetespib is also approximately 20-fold more potent in isogenic Ba/F3 pro-B cells rendered IL-3 independent by expression of EGFR and ERBB2 mutants^[1]. Ganetespib exhibits potent in vitro cytotoxicity in a range of solid and hematologic tumor cell lines, induces the degradation of known Hsp90 client proteins, displays superior potency to the ansamycin inhibitor 17-allylamino-17-demethoxygeldanamycin (17-AAG)^[2]. Ganetespib is a potent HSP90 inhibitor, and shown to kill canine tumor cell lines in vitro^[3]. Ganetespib possesses superior JAK/STAT inhibitory activity to both P6 and 17-AAG in terms of potency or duration of response in the HEL92.1.7 cells^[4].

In Vivo: Ganetespib (125 mg/kg, i.v.) accumulates in tumors relative to normal tissues and displays greater in vivo efficacy than 17-AAG without increased toxicity and inhibits proliferation and induces apoptosis in parallel with EGFR depletion in NCI-H1975 xenografts^[1]. Ganetespib (100, 125, 150 mg/kg, i.v.) shows potent antitumor efficacy in solid and hematologic xenograft models of oncogene addiction, as evidenced by significant growth inhibition and/or regressions^[2].



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