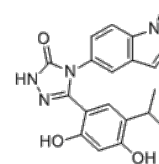


Product Name : STA-9090
Cat. No. : PC-20710
CAS No. : 888216-25-9
Molecular Formula : C₂₀H₂₀N₄O₃
Molecular Weight : 364.41
Target : Heat Shock Protein (HSP)
Solubility : 10 mM in DMSO



CAS: 888216-25-9

Biological Activity

Ganetespiib (STA 9090) is a potent, second generation small-molecule inhibitor of HSP90 (IC₅₀=4 nM).

Ganetespiib blocks the ability of HSP90 to bind to biotinylated geldanamycin and disrupts the association of HSP90 with its cochaperone, p23, more potently than 17-AAG.

Ganetespiib causes depletion of receptor tyrosine kinases, extinguishing of downstream signaling, inhibition of proliferation and induction of apoptosis with IC₅₀ of 2-30 nM, in NSCLC cell lines.

Ganetespiib is also approximately 20-fold more potent than 17-AAG in isogenic Ba/F3 pro-B cells rendered IL-3 independent by expression of EGFR and ERBB2 mutants.

Ganetespiib binds to the ATP-binding domain at the N-terminus of Hsp90 and acts as a potent Hsp90 inhibitor by inducing degradation of multiple oncogenic Hsp90 client proteins including HER2/neu, mutated EGFR, Akt, c-Kit, IGF-1R, PDGFR α , Jak1, Jak2, STAT3, STAT5, HIF-1 α , CDC2, c-Met, and Wilms' tumor 1.

References

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Caution: Product has not been fully validated for medical applications. Lab Use Only!

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