



Allitinib

Catalog No: tcsc0983

Z A	vailable Sizes
Size: 5n	ng
Size: 10)mg
Size: 50)mg
S	pecifications
CAS No 897383-	
Formula	
Pathwa JAK/STA ⁻	y: Γ Signaling;Protein Tyrosine Kinase/RTK
Target: EGFR;EC	
Purity / >98%	Grade:
Solubili 10 mM i	
	tive Names: 6;ALS 1306
Observ	ed Molecular Weight:

Product Description

448.88





Allitinib (AST1306) is a selective, irreversible **EGFR** and **ErbB2** inhibitor with IC_{50} s of 0.5 and 3 nM, respectively.

IC50 & Target: IC50: 0.5 nM (EGFR), 3 nM (ErbB2), 12 nM (EGFR^{L858R/T790M})^[1]

In Vitro: Allitinib (AST1306) induces a significant, concentration-dependent inhibition of the growth of HIH3T3-EGFR T790M/L858R cells. In addition, Allitinib (AST1306) effectively inhibits EGFR phosphorylation in HIH3T3-EGFR T790M/L858R cells. Allitinib (AST1306) inhibits the growth of NCI-H1975 cells that harbor the EGFR T790M/L858R mutation in a concentration-dependent manner, and blocks phosphorylation of EGFR and downstream pathways as well. Allitinib (AST1306) inhibits the phosphorylation of EGFR and ErbB2, and downstream signaling in human cancer cells. Allitinib (AST1306) inhibits the proliferation of human cancer cells, with ErbB2-overexpressing cells exhibiting more sensitivity^[1].

In Vivo: Allitinib (AST1306) potently suppresses tumor growth in ErbB2-overexpressing adenocarcinoma xenograft and FVB-2/Nneu transgenic breast cancer mouse models, but weakly inhibits the growth of EGFR-overexpressing tumor xenografts. Tumor growth inhibition induced by a single dose of Allitinib (AST1306) in the SK-OV-3 xenograft model is accompanied by a rapid (within 2 h) and sustained (\geq 24 h) inhibition of both EGFR and ErbB2, consistent with an irreversible inhibition mechanism^[1].

All products are for RESEARCH USE ONLY. Not for diagnostic & therapeutic purposes!