Product Data Sheet

Product Name: AC710 Mesylate
Cat. No.: GC35225

Chemical Properties

Cas. No.	1351522-05-8		
SMILES	O=C(C1=NC=C(OC2CC(C)(C)N(CC)C(C)(C)C2)C=C1)NC3=CC=C(NC(NC4=NOC(C(C)(C)C)=C4)=O)C=C3.CS(=O)(O)=O		
Formula	$C_{32}H_{46}N_6O_7S$	M.Wt	658.81
Solubility	Soluble in DMSO	Storage	Store at -20°C
General tips	For obtaining a higher solubility , please warm the tube at 37 ℃ and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20℃ for several months.		
Shipping Condition	Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.		
Structure	AC710 Mesylate		

Protocol

Animal experiment:

Mice: The antitumor efficacy of AC710 is assessed in a subcutaneous flank-tumor xenograft model in athymic nude mice using the MV4-11cell line. AC710 is dosed at 0.3, 3, and 30 mg/kg for 2 weeks. Tumor growth and body weight is monitored[1].

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References:

[1]. Liu G, et al. Discovery of AC710, a Globally Selective Inhibitor of Platelet-Derived Growth Factor Receptor-Family Kinases. ACS Med Chem Lett. 2012 Sep 24;3(12):997-1002.

Background

AC-710 is an inhibitor of PDGFR family kinases (IC_{50}s = 7.7, 10.5, 2, and 1.2 nM for PDGFRβ, CSF1R, FLT3, and c-Kit, respectively).[1] It is greater than 30-fold selective for PDGFR family kinases over a panel of 386 kinases, as well as over a panel of five cytochrome P450 (CYP) enzymes (IC_{50}s = >40 ?M). AC-710 (30 mg/kg) inhibits CSF1R-dependent M-NFS-60 murine leukemia cell proliferation and reduces tumor volume in an FLT3 mutant MV4-11 leukemia mouse xenograft model.

1.Liu, G., Campbell, B.T., Holladay, M.W., et al.Discovery of AC710, a globally selective inhibitor of platelet-derived growth factor receptor-family kinasesACS Med. Chem. Lett.3(12)997-1002(2012)

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