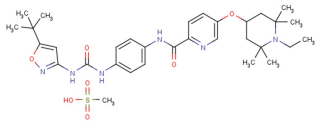
Data Sheet (Cat.No.T10228)

AC710 Mesylate

Chemical Properties



CAS No.:	1351522-05-8
Formula:	C32H46N6O7S
Molecular Weight:	658.81
Appearance:	N/A
Storage:	0-4℃ for short term (days to weeks), or -20℃ for long term (months).

Biological Description

Description	AC710 Mesylate is a potent PDGFR inhibitor (Kds: 0.6, 1.57, 1, 1.3, 1.0 nM for FLT3, CSF1R, KIT, PDGFRα and PDGFRβ).
Targets(IC_{50})	PDGFRα: 1.3 nM (kd) PDGFRβ: 1 nM (kd) c-Kit: 1 nM (kd) FLT3: 0.6 nM (kd) CSF1R: 1.57 nM (kd)
In vivo	At 0.3 mg/kg of AC710, tumor growth is temporally inhibited, and growth resumes quickly thereafter. At 3 and 30 mg/kg of AC710, tumors regress completely, and the tumor volume stays suppressed for an extended period after dosing is halted. No bodyweight loss is observed in animals treated with AC710 at all doses, indicating that it is well tolerated in mice at efficacious doses. AC710 exhibits a significant impact on disease in a dose-dependent fashion in a mouse collagen-induced arthritis (CIA) model, at a dose as low as 3 mg/ kg for 15 days (day 0-14). AC710 (10 and 30 mg/kg) demonstrates equivalent or slightly better efficacy in reducing the joint swelling and inflammation than dexomethasone administered at a safe dose.

Solubility Information

Solubility	< 1 mg/ml refers to the product slightly soluble or insoluble

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.518 mL	7.589 mL	15.179 mL
5 mM	0.304 mL	1.518 mL	3.036 mL
10 mM	0.152 mL	0.759 mL	1.518 mL
50 mM	0.03 mL	0.152 mL	0.304 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 ℃ for 6 months; - 20 ℃ for 1 month. Please use it as soon as possible.

Reference

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.

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