

Product Name: AC 710

Catalog No.: 5013

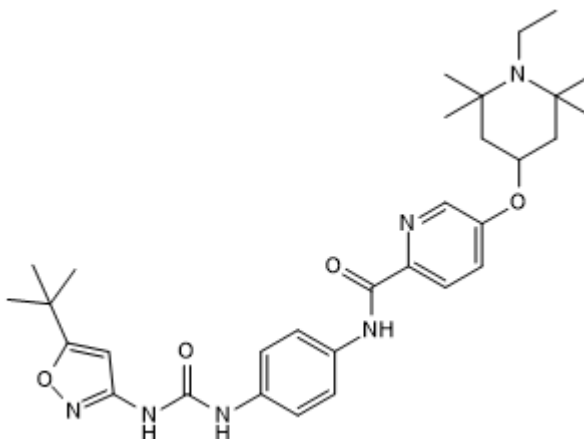
Batch No.: 1

CAS Number: 1351522-04-7

IUPAC Name: N-[4-[[[5-(1,1-Dimethylethyl)-3-isoxazolyl]amino]carbonyl]amino]phenyl]-5-[(1-ethyl-2,2,6,6-tetramethyl-4-piperidinyloxy)-2-pyridinecarboxamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₃₁H₄₂N₆O₄
Batch Molecular Weight: 562.7
Physical Appearance: White solid
Solubility: DMSO to 20 mM
Storage: Store at +4°C
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.35 (Dichloromethane:Methanol:con.aq NH₃ [90:5:5])
HPLC: Shows 99.4% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	66.17	7.52	14.94
Found	66.12	7.58	15.01

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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Description:

Potent PDGFR family inhibitor (IC₅₀ values are 1.2, 2, 7.7 and 10.5 nM for KIT, FLT3, PDGFRβ and CSF1R respectively; K_d = 1.3 nM for PDGFRα). Exhibits >30-fold selectivity over a panel of other kinases and exhibits no activity against cytochrome P450. Causes tumor regression of leukemia cell xenografts in mice. Also reduces joint swelling and inflammation in a mouse model of collagen-induced arthritis. Orally active.

Physical and Chemical Properties:

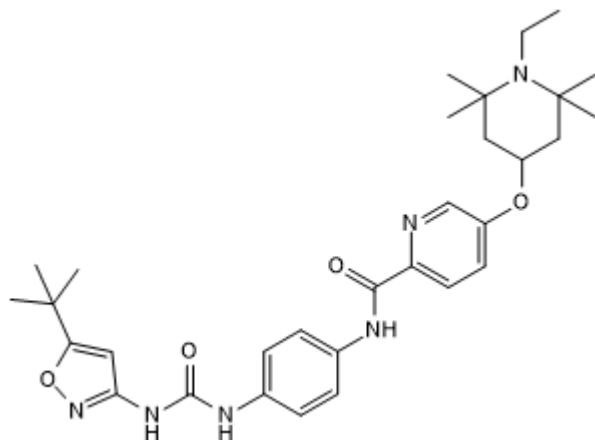
Batch Molecular Formula: C₃₁H₄₂N₆O₄

Batch Molecular Weight: 562.7

Physical Appearance: White solid

Minimum Purity: >99%

Batch Molecular Structure:



Storage: Store at +4°C

Solubility & Usage Info:

DMSO to 20 mM

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References:

Liu *et al* (2012) Discovery of AC710, a globally selective inhibitor of platelet-derived growth factor receptor-family kinases. ACS Med.Chem.Lett. **3** 997. PMID: 24900421.

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