

Product Name: Quizartinib

Catalog No.: 6788

Batch No.: 1

CAS Number: 950769-58-1

IUPAC Name: *N*-[5-(1,1-Dimethylethyl)-3-isoxazolyl]-*N'*-[4-[7-[2-(4-morpholinyl)ethoxy]imidazo[2,1-*b*]benzothiazol-2-yl]phenyl]urea

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₉H₃₂N₆O₄S.¼H₂O

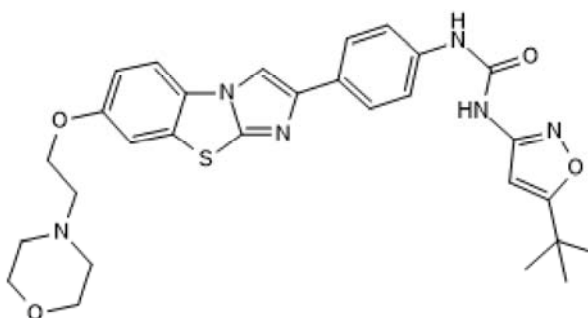
Batch Molecular Weight: 565.17

Physical Appearance: Off White solid

Solubility: DMSO to 100 mM

Storage: Store at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 98.4% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon Hydrogen Nitrogen		
Theoretical	61.63	5.8	14.87
Found	61.38	5.81	14.82

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

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Description:

Highly potent FMS-like receptor tyrosine kinase-3 (FLT3) inhibitor ($K_d = 1.6$ nM, $IC_{50} = 0.56$ nM in MV4-11 cell proliferation assay). Displays >10-fold selectivity for FLT3 over panel of 400 kinases. Inhibits FLT3 activity and displays antitumor properties in a mouse MV4-11 tumor xenograft model.

Physical and Chemical Properties:

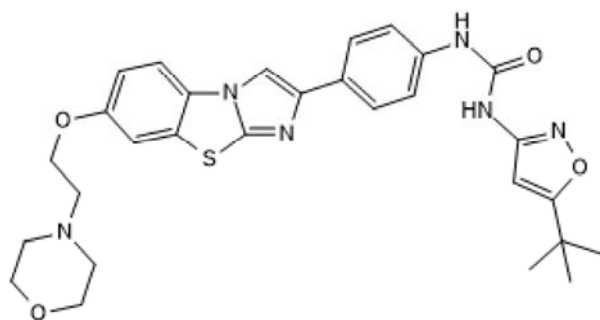
Batch Molecular Formula: $C_{29}H_{32}N_6O_4S \cdot \frac{1}{4}H_2O$

Batch Molecular Weight: 565.17

Physical Appearance: Off White solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store at -20°C

Solubility & Usage Info:

DMSO to 100 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:

Chao et al (2009) Identification of *N*-(5-*tert*-butyl-isoxazol-3-yl)-*N'*-{4-[7-(2-morpholin-4-yl-ethoxy)imidazo[2,1-*b*][1,3]benzothiazol-2-yl]phenyl}urea dihydrochloride (AC220), a uniquely potent, selective, and efficacious FMS-like tyrosine kinase-3 (FLT3) inhibitor. *J.Med.Chem.* **52** 7808. PMID: 19754199.

Zarrinkar et al (2009) AC220 is a uniquely potent and selective inhibitor of FLT3 for the treatment of acute myeloid leukemia (AML). *Blood.* **114** 2984. PMID: 19654408.

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