

Certificate of Analysis

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Product Name: PF 6274484

Catalog No.: 5939

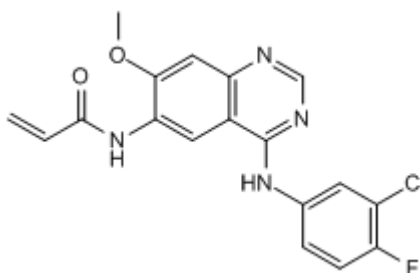
Batch No.: 1

CAS Number: 1035638-91-5

IUPAC Name: *N*-[4-[(3-Chloro-4-fluorophenyl)amino]-7-methoxy-6-quinazoliny]-2-propenamamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula:	C ₁₈ H ₁₄ ClFN ₄ O ₂
Batch Molecular Weight:	372.78
Physical Appearance:	Light Beige solid
Solubility:	DMSO to 100 mM ethanol to 10 mM with gentle warming
Storage:	Store at -20°C
Batch Molecular Structure:	



2. ANALYTICAL DATA

TLC:	R _f = 0.6 (Dichloromethane:Methanol [9:1])
HPLC:	Shows 99.2% purity
¹H NMR:	Consistent with structure
Mass Spectrum:	Consistent with structure
Microanalysis:	

	Carbon	Hydrogen	Nitrogen
Theoretical	58	3.79	15.02
Found	57.66	3.82	14.8

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

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Description:

High affinity and potent covalent EGFR kinase inhibitor ($K_i = 0.14$ nM). Inhibits autophosphorylation of WT and mutant EGFR in tumor cells (IC_{50} values are 5.8 and 6.6 nM, respectively).

Physical and Chemical Properties:

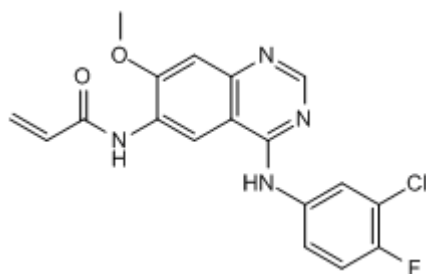
Batch Molecular Formula: $C_{18}H_{14}ClFN_4O_2$

Batch Molecular Weight: 372.78

Physical Appearance: Light Beige solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store at -20°C

Solubility & Usage Info:

DMSO to 100 mM

ethanol to 10 mM with gentle warming

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:

Schwartz et al (2014) Covalent EGFR inhibitor analysis reveals importance of reversible interactions to potency and mechanisms of drug resistance. *Proc.Natl.Acad.Sci.U.S.A.* **111** 173. PMID: 24347635.

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