

Product Name: FIIN 1 hydrochloride

Catalog No.: 4002

Batch No.: 1

CAS Number: 1256152-35-8

IUPAC Name: *N*-(3-((3-(2,6-dichloro-3,5-dimethoxyphenyl)-7-(4-(diethylamino)butylamino)-2-oxo-3,4-dihydropyrimido[4,5-*d*]pyrimidin-1(2*H*)-yl)methyl)phenyl)acrylamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₃₂H₃₉N₇O₄Cl₂.HCl

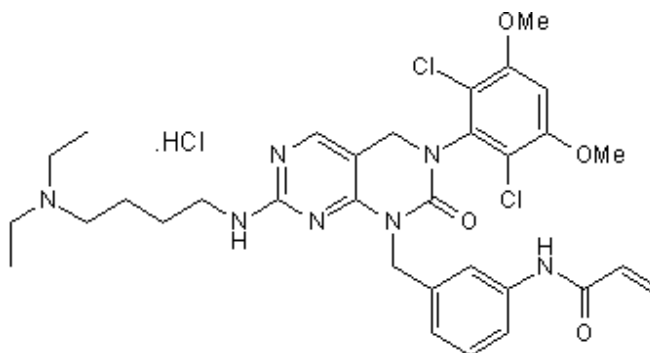
Batch Molecular Weight: 693.06

Physical Appearance: Off-white solid

Solubility: DMSO to 100 mM
ethanol to 100 mM

Storage: Store at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.56 (Chloroform:Methanol:Ammonia soln. [90:9:1])

HPLC: Shows 96.7% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

| | Carbon | Hydrogen | Nitrogen |
|-------------|--------|----------|----------|
| Theoretical | 55.46 | 5.82 | 14.15 |
| Found | 55.35 | 5.72 | 14.15 |

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

Product Name: FIIN 1 hydrochloride

Catalog No.: 4002

Batch No.: 1

CAS Number: 1256152-35-8

IUPAC Name: *N*-(3-((3-(2,6-dichloro-3,5-dimethoxyphenyl)-7-(4-(diethylamino)butylamino)-2-oxo-3,4-dihydropyrimido[4,5-*d*]pyrimidin-1(2*H*)-yl)methyl)phenyl)acrylamide

Description:

Potent, irreversible FGFR inhibitor (K_d values are 2.8, 5.4, 6.9 and 120 nM for FGFR1, FGFR3, FGFR2 and FGFR4 respectively); acts at the ATP binding site. Also irreversibly inhibits Flt-1, Flt-4 and VEGFR-2 (K_d values are 32, 120 and 210 nM respectively); displays limited activity ($K_d > 500$ nM) at other kinases. Exhibits antiproliferative activity in FGFR3- and FGFR1-transformed Ba/F3 cells (EC_{50} values are 10 and 14 nM respectively). Derived from the reversible FGFR inhibitor, PD 173074 (Cat. No. 3044).

Physical and Chemical Properties:

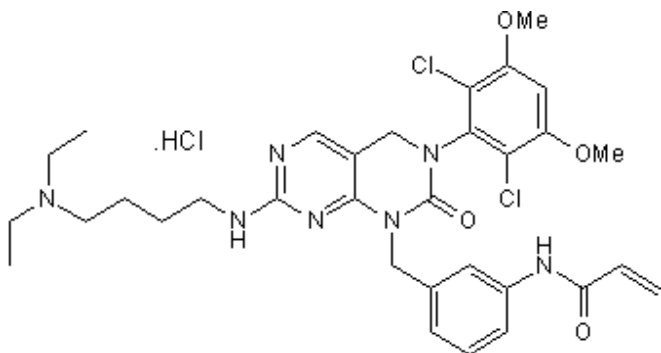
Batch Molecular Formula: $C_{32}H_{39}N_7O_4Cl_2.HCl$

Batch Molecular Weight: 693.06

Physical Appearance: Off-white solid

Minimum Purity: >96%

Batch Molecular Structure:



References:

Zhou (2010) A structure-guided approach to creating covalent FGFR inhibitors. *Chem.Biol.* **17** 285. PMID: 20338520.

Storage: Store at -20°C

Solubility & Usage Info:

DMSO to 100 mM
ethanol 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.

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

bio-techne.com

info@bio-techne.com

techsupport@bio-techne.com

North America

Tel: (800) 343 7475

China

info.cn@bio-techne.com

Tel: +86 (21) 52380373

Europe Middle East Africa

Tel: +44 (0)1235 529449

Rest of World

www.tocris.com/distributors

Tel: +1 612 379 2956