

Product Name: ZM 306416 hydrochloride

Catalog No.: 2499

Batch No.: 2

CAS Number: 196603-47-1

IUPAC Name: 4-[(4'-Chloro-2'-fluoro)phenylamino]-6,7-dimethoxyquinazoline hydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₆H₁₃N₃O₂FCI.HCl

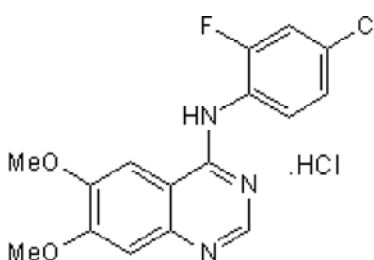
Batch Molecular Weight: 370.21

Physical Appearance: Pale yellow solid

Solubility: DMSO to 10 mM

Storage: Desiccate at RT

Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.2 (Ethyl acetate:Petroleum ether [1:3])

HPLC: Shows 99.1% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	51.91	3.81	11.35
Found	52.03	3.84	11.17

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

Product Name: ZM 306416 hydrochloride

Catalog No.: 2499

Batch No.: 2

CAS Number: 196603-47-1

IUPAC Name: 4-[(4'-Chloro-2'-fluoro)phenylamino]-6,7-dimethoxyquinazoline hydrochloride

Description:

Inhibitor of vascular endothelial growth factor (VEGF) receptor tyrosine kinase. Inhibits activity of KDR and FLT VEGF receptors (IC₅₀ values are 100 nM and 2 μM respectively) and displays > 3-fold selectivity over FGFR-1. Orally active in vivo.

Physical and Chemical Properties:

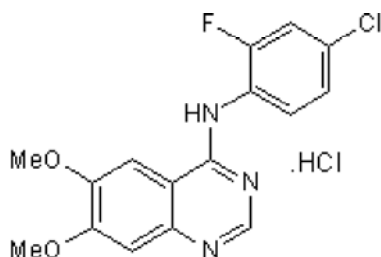
Batch Molecular Formula: C₁₆H₁₃N₃O₂FCI.HCl

Batch Molecular Weight: 370.21

Physical Appearance: Pale yellow solid

Minimum Purity: >99%

Batch Molecular Structure:



Storage: Desiccate at RT

Solubility & Usage Info:

DMSO to 10 mM

When purchased as a 1mg unit, this product is supplied as a lyophilized solid and may be very hard to visualize. Solutions should be made by adding solvent directly to the vial. The vial should then be vortexed vigorously to ensure the product has completely dissolved.

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.

Licensing Information:

Sold with the permission of AstraZeneca UK Ltd.

References:

Hennequin *et al* (1999) Design and structure-activity relationship of a new class of potent VEGF receptor tyrosine kinase inhibitors. *J.Med.Chem.* **42** 5369. PMID: 10639280.

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