

Product Name: WZ 4002

Catalog No.: 6290

Batch No.: 1

CAS Number: 1213269-23-8

IUPAC Name: *N*-[3-[[[5-Chloro-2-[[2-methoxy-4-(4-methyl-1-piperazinyl)phenyl]amino]-4-pyrimidinyl]oxy]phenyl]-2-propenamido

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₅H₂₇ClN₆O₃·1¾H₂O

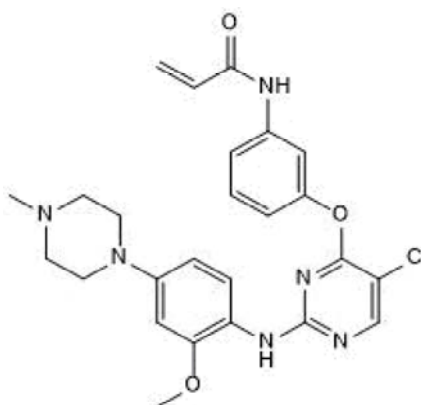
Batch Molecular Weight: 526.5

Physical Appearance: Off White solid

Solubility: DMSO to 10 mM

Storage: Store at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.3% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	57.03	5.84	15.96
Found	56.62	5.73	15.77

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

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Description:

WZ 4002 is a potent irreversible mutant selective EGFR tyrosine kinase inhibitor. It blocks ATP-dependent autophosphorylation of EGFR carrying the T790M or L858R mutation (IC₅₀ = 8 nM). WZ 4002 exhibits selectivity for mutant EGFR over wild-type. In mice bearing T790M mutant lung cancer cell lines WZ 4002 inhibits EGFR, AKT and ERK1/2 phosphorylation and results in significant tumor regression.

Physical and Chemical Properties:

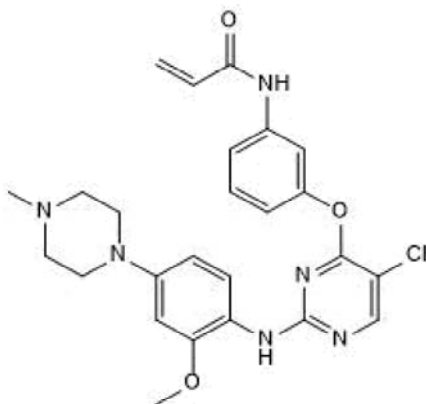
Batch Molecular Formula: C₂₅H₂₇ClN₆O₃·1¼H₂O

Batch Molecular Weight: 526.5

Physical Appearance: Off White solid

Minimum Purity: ≥98%

Batch Molecular Structure:



Storage: Store at -20°C

Solubility & Usage Info:

DMSO to 10 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.

Licensing Information:

Sold under license from Dana-Farber Cancer Institute.

References:

Zhou *et al* (2009) Novel mutant-selective EGFR kinase inhibitors against EGFR T790M. Nature **462** 1070. PMID: 20033049.

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North America

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China

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Europe Middle East Africa

Tel: +44 (0)1235 529449

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