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Certificate of Analysis

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Product Name: Lapatinib

Catalog No.: 6811 Batch No.: 1

CAS Number: 231277-92-2

IUPAC Name:

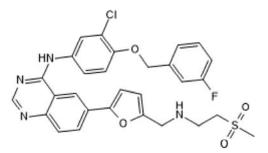
N-[3-Chloro-4-[(3-fluorophenyl)methoxy]phenyl]-6-[5-[[[2-(methylsulfonyl)ethyl]amino]methyl]-2-furanyl]-4guinazolinamine

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: Batch Molecular Weight: Physical Appearance: Solubility: Storage:

Batch Molecular Structure:

C₂₉H₂₆CIFN₄O₄S 581.06 Pale yellow solid DMSO to 100 mM Store at -20°C



2. ANALYTICAL DATA

HPLC: ¹H NMR: Mass Spectrum: Microanalysis:

Shows 98.7% purity Consistent with structure Consistent with structure

	Carbon Hy	ydrogen N	litrogen
Theoretical	59.94	4.51	9.64
Found	59.86	4.51	9.66

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

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Catalog No.: 6811

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N-[3-Chloro-4-[(3-fluorophenyl)methoxy]phenyl]-6-[5-[[[2-(methylsulfonyl)ethyl]amino]methyl]-2-furanyl]-4quinazolinamine

Description:

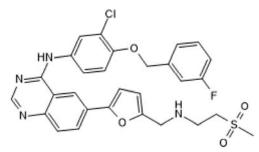
Potent and selective dual ErbB2 (HER-2) and EGFR inhibitor (IC₅₀ values are 9.8 and 10.2 nM, respectively). Selective for EGFR and ErbB-2 versus other proliferative kinases. Inhibits proliferation in multiple cancer cell lines (average IC₅₀ values

Physical and Chemical Properties:

Batch Molecular Formula: C₂₉H₂₆CIFN₄O₄S Batch Molecular Weight: 581.06 Physical Appearance: Pale yellow 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:

Rusnak et al (2001) The effects of the novel, reversible epidermal growth factor receptor/ErbB-2 tyrosine kinase inhibitor, GW2016, on the growth of human normal and tumor-derived cell lines in vitro and in vivo. Mol.Cancer Ther. 1 85. PMID: 12467226.

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