

Product Name: Iressa

Catalog No.: 3000

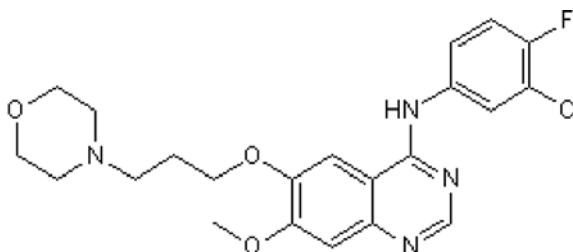
Batch No.: 3

CAS Number: 184475-35-2

IUPAC Name: *N*-(3-Chloro-4-fluorophenyl)-7-methoxy-6-[3-(4-morpholinyl)propoxy]-4-quinazolinamine

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₂H₂₄ClFN₄O₃
Batch Molecular Weight: 446.9
Physical Appearance: White solid
Solubility: DMSO to 100 mM
 ethanol to 10 mM
Storage: Store at RT
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 100% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	59.13	5.41	12.54
Found	59.16	5.35	12.52

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

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Description:

Iressa is an orally active, selective inhibitor of EGFR tyrosine kinase (IC_{50} = 23 - 79 nM). Shows minimal activity against ErbB2, KDR, c-flt, PKC, MEK and ERK-2. Blocks EGFR autophosphorylation and inhibits tumor growth in mice bearing a range of human xenografts. Also inhibits growth of brain metastases in mouse model of non-small cell lung cancer. View information regarding the usage of Iressa for non-clinical studies.

Physical and Chemical Properties:

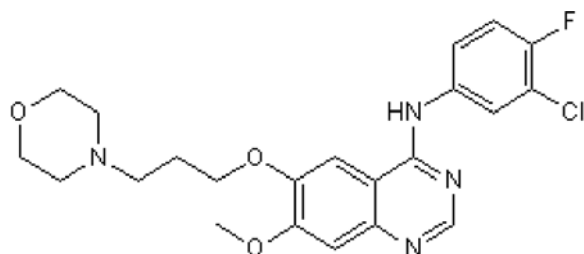
Batch Molecular Formula: $C_{22}H_{24}ClFN_4O_3$

Batch Molecular Weight: 446.9

Physical Appearance: White solid

Minimum Purity: ≥98%

Batch Molecular Structure:



Storage: Store at RT

Solubility & Usage Info:

DMSO to 100 mM

ethanol 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 for research purposes only under agreement from AstraZeneca

References:

Tan *et al* (2017) Tyrosine kinase inhibitors show different anti-brain metastases efficacy in NSCLC: A direct comparative analysis of icotinib, gefitinib, and erlo. in a nude mouse model. *Oncotarget*. **8** 98771. PMID: 29228726 .

McKillop *et al* (2005) Tumor penetration of gefi. (Iressa), an epidermal growth factor receptor tyrosine kinase inhibitor. *Mol.Cancer Ther.* **4** 641. PMID: 15827338.

Baselga *et al* (2000) ZD1839 ('Iressa'), as an anticancer agent. *Drugs* **60** (Suppl. 1) 33. PMID: 11129170.

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