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Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Lapatinib

EGFR, HER2 inhibitor
Catalog No. SIH-459



Discovery through partnership | Excellence through quality

Overview

Product Name

Lapatinib

Description

EGFR, HER2 inhibitor

Purity

>99%

CAS No.

231277-92-2

Molecular Formula

C₁₈H₁₅ClF₃N₂O₃S

Molecular Weight

581.1

Properties

Storage Temperature

-20°C

Shipping Temperature

Shipped Ambient

Product Type

Inhibitor

Solubility

Solubility in water is 0.007 mg/ml and in 0.1N HCl is 0.001 mg/ml at 25° C

Source

Synthetic

Appearance

Yellow crystalline solid

SMILES

C2=C1C(=NC=NC1=CC=C2C3=CC=C(O3)CNCC[S](=O)(=O)C)NC4=CC=C(C(=C4)Cl)OCC5=CC=CC(=C5)F

InChI

InChI=1S/C29H26ClFN4O4S/c1-40(36,37)12-11-32-16-23-7-10-27(39-23)20-5-8-26-24(14-20)29(34-18-33-26)35-22-6-9-28(25(30)15-22)3

InChIKey

BCFGMOOMADDAQU-UHFFFAOYSA-N

Safety Phrases

Classification:

Not a hazardous substance or mixture.

Safety Phrases:

S22 - Do not breathe dust.

S24/25 - Avoid contact with skin and eyes.

S36/37/39 - Wear suitable protective clothing, gloves and eye/face protection.

Cite This Product

Lapatinib (StressMarq Biosciences Inc., Victoria BC CANADA, Catalog # SIH-459)

Biological Description

Alternative Names

N-[3-chloro-4-[(3-fluorophenyl)methoxy]phenyl]-6-[5-[(2-methylsulfonyl)ethylamino)methyl]furan-2-yl]quinazolin-4-amine

Research Areas

Cancer, Apoptosis, Cancer Growth Inhibitors, Cell Signaling, Growth Factor Receptor Inhibitors

PubChem ID

208908

Scientific Background

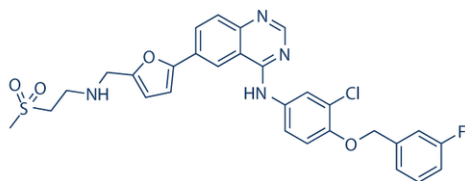
Lapatinib is a tyrosine kinase inhibitor. Specifically, it interrupts the ErbB/neu and epidermal growth factor receptor (EGFR) pathways. It is an antineoplastic agent used in breast cancer research. In solid tumor cells, Lapatinib binds to the ATP-binding pocket of the protein kinase domains on EGFR/ErbB, preventing self-phosphorylation.

References

1. Chien A.J., et al. (2014) J. Clin. Oncol: J. Am. Clin. Oncol. 32(14): 14721479.
2. Dahal B.K., et al. (2010) Am. J. Resp. Critical Care Med. 181(2): 158167.

Product Images

Chemical structure of Lapatinib (SIH-459), a EGFR and HER2 inhibitor. CAS #: 231277-92-2. Molecular Formula: C₂₉H₂₆ClFN₄O₄S. Molecular Weight: 581.1 g/mol.



Product Citations (0)

Currently there are no citations for this product.

Reviews

There are no reviews yet.