

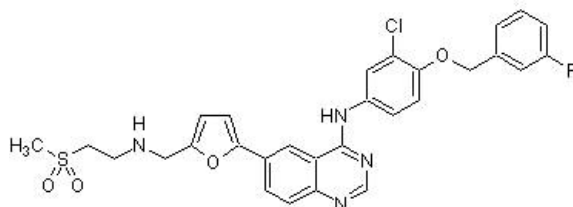
Product datasheet

Lapatinib, EGFR and HER2 tyrosine kinase inhibitor
ab219408

Overview

Product name	Lapatinib, EGFR and HER2 tyrosine kinase inhibitor
Description	Cell-permeable, potent EGFR and HER2 tyrosine kinase inhibitor
Biological description	Cell-permeable, potent dual tyrosine kinase inhibitor of EGFR and HER2 (ERBB2) (IC ₅₀ values are 3 nM and 13 nM respectively). Also inhibits HER4 (IC ₅₀ = 347 nM). Reduces tyrosine phosphorylation of EGFR and HER2, and inhibits activation of Erk1/2 and AKT, downstream effectors of proliferation and cell survival, respectively. Inhibits tumor cell growth <i>in vitro</i> and in xenograft models for a variety of human tumors. Effective <i>in vivo</i> and is used in combination therapy to prevent or suppress cancers where these kinases are over-expressed, including breast cancer.
Purity	> 98%
CAS Number	231277-92-2

Chemical structure



Properties

Chemical name	N-[3-Chloro-4-[(3-fluorophenyl)methoxy]phenyl]-6-[5-[(2-methylsulfonyl)ethylamino)methyl]-2-furyl]quinazolin-4-amine
Molecular weight	581.06
Molecular formula	C ₂₉ H ₂₆ ClFN ₄ O ₄ S
PubChem identifier	208908
Storage instructions	Shipped at Room Temperature. Store at -20°C long term. Store under desiccating conditions.
Solubility overview	Soluble in DMSO to 100 mM
Handling	Wherever possible, you should prepare and use solutions on the same day. However, if you need to make up stock solutions in advance, we recommend that you store the solution as aliquots in tightly sealed vials at -20°C. Generally, these will be useable for up to one month. Before use, and

prior to opening the vial we recommend that you allow your product to equilibrate to room temperature for at least 1 hour.

Need more advice on solubility, usage and handling? Please visit our [frequently asked questions \(FAQ\) page](#) for more details.

SMILES

CS(=O)
(=O)CCNCC1=CC=C(O1)C2=CC3=C(C=C2)N=CN=C3NC4=CC(=C(C=C4)OCC5=CC(=CC=C5)F)Cl

Source

Synthetic

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES, NOT FOR USE IN HUMANS"

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