

Product Name : Gefitinib hydrochloride

Synonyms : ZD-1839 hydrochloride

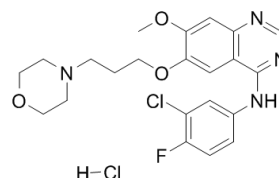
Cat No. : M12849

CAS Number : 184475-55-6

Molecular Formula : C₂₂H₂₅Cl₂FN₄O₃

Formula Weight : 483.36

Chemical Name : 4-Quinazolinamine, N-(3-chloro-4-fluorophenyl)-7-methoxy-6-[3-(4-morpholinyl)propoxy]-, hydrochloride (1:1)



Description : A potent, selective, orally active EGFR inhibitor with IC₅₀ of 23 nM; inhibits EGF-stimulated proliferation of KB cells with IC₅₀ of 80 nM; blocks the growth of GEO colon cancer, ZR-75-1 and MCF-10A Ha-ras breast cancer, and OVCAR-3 ovarian cancer cell lines with IC₅₀ of 0.2-0.4 μM; significantly decreases EGFRvIII phosphotyrosine load, EGFRvIII-mediated proliferation and anchorage-independent growth; has been used to treat advanced (or recurrent) non-small cell lung cancer. Lung Cancer Approved

Pathway : Angiogenesis

Target : EGFR

Receptor : EGFR

Solubility : DMSO: 0.227 mg/mL; H₂O: < 4.8 mg/mL

SMILES : COC1=C(C=C2C(=C1)N=CN=C2NC3=CC(=C(C=C3)F)Cl)OCCCN4CCOCC4.Cl

Storage : (-20°C)

Stability : ≥ 2 years

Reference :

1. Barker AJ, et al. Bioorg Med Chem Lett. 2001 Jul 23;11(14):1911-4. | 2. Sirotnak FM, et al. Clin Cancer Res. 2000 Dec;6(12):4885-92. | 3. Moasser MM, et al. Cancer Res. 2001 Oct 1;61(19):7184-8.