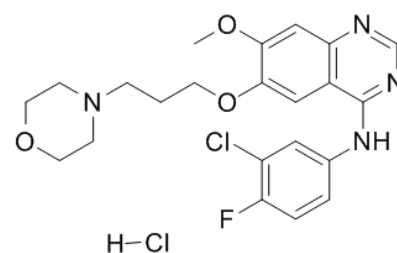


Product Name : Gefitinib hydrochloride
Cat. No. : PC-45892
CAS No. : 184475-55-6
Molecular Formula : C₂₂H₂₅Cl₂FN₄O₃
Molecular Weight : 483.3633
Target : EGFR
Solubility : DMSO: 0.227 mg/mL; H₂O: < 4.8 mg/mL



Biological Activity

Gefitinib hydrochloride (ZD1839) is a potent, selective, orally active **EGFR** inhibitor with IC₅₀ of 23 nM. Gefitinib inhibits EGF-stimulated proliferation of KB cells with IC₅₀ of 80 nM. Gefitinib 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. Gefitinib significantly decreases EGFRvIII phosphotyrosine load, EGFRvIII-mediated proliferation and anchorage-independent growth. Gefitinib has been used to treat advanced (or recurrent) non-small cell lung cancer.

References

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

Caution: Product has not been fully validated for medical applications. Lab Use Only!

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