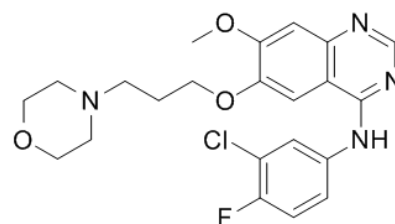


**Product Name** : Gefitinib  
**Cat. No.** : PC-45891  
**CAS No.** : 184475-35-2  
**Molecular Formula** : C<sub>22</sub>H<sub>24</sub>ClFN<sub>4</sub>O<sub>3</sub>  
**Molecular Weight** : 446.9024  
**Target** : EGFR  
**Solubility** : DMSO: ≥ 30 mg/mL



## Biological Activity

Gefitinib (ZD1839) is a potent, selective, orally active **EGFR** inhibitor with IC<sub>50</sub> of 23 nM.

Gefitinib (ZD1839) inhibits EGF-stimulated proliferation of KB cells with IC<sub>50</sub> of 80 nM.

Gefitinib (ZD1839) 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 IC<sub>50</sub> of 0.2-0.4 μM.

Gefitinib (ZD1839) significantly decreases EGFRvIII phosphotyrosine load, EGFRvIII-mediated proliferation and anchorage-independent growth.

Gefitinib (ZD1839) 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.

Sirotnak 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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