

# Gefitinib

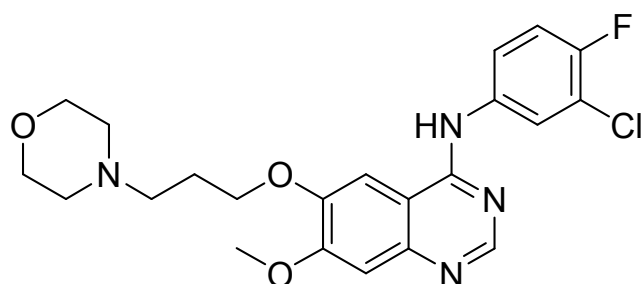
SYN-1042

N-(3-chloro-4-fluorophenyl)-7-methoxy-6-(3-morpholinopropoxy)quinazolin-4-amine

CAS Registry No.: 184475-35-2

**Smiles String:**

COc1cc2c(cc1OCCCN3CCOCC3)c(ncn2)Nc4ccc(c(c4)Cl)F



Molecular Weight: 446.9

Molecular Formula: C<sub>22</sub>H<sub>24</sub>ClFN<sub>4</sub>O<sub>3</sub>

Lot Number: Refer to vial

<sup>1</sup>H-NMR: Available on request

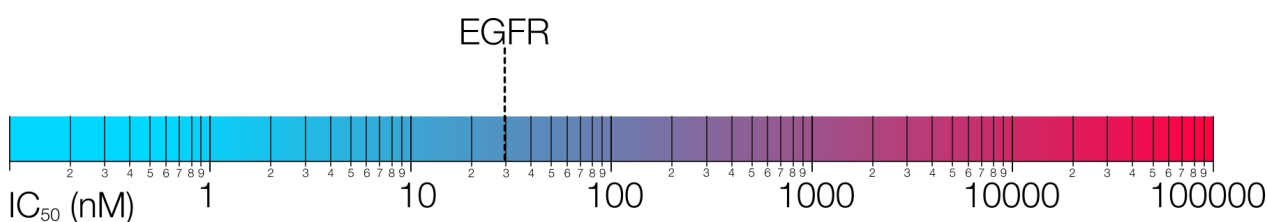
HPLC (Purity): > 95.0% @ 254 nm

ES-MS: Available on request

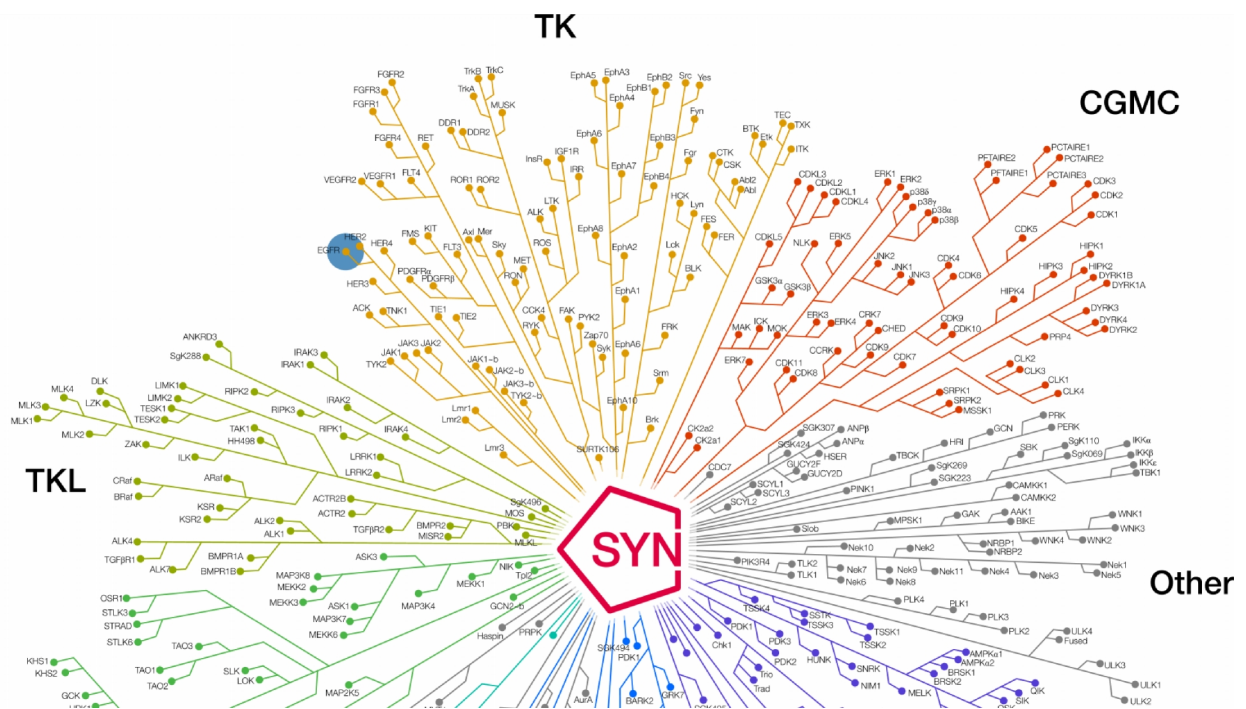
## Description:

Gefitinib is a selective, orally available epidermal growth factor receptor (EGFR) tyrosine kinase inhibitor. In NR6wtEGFR and NR6W cells, it inhibits Tyr1173, Tyr992, Tyr1173 and Tyr992 with IC<sub>50</sub> values of 37 nM, 37nM, 26 nM and 57 nM, respectively.

## Biological Activity



# Kinome Mapping



## Shipping and Storage Temperature

**Shipping:**  
Ambient

**Storage:**  
2 years -20C, Powder 1 month, -4C in DMSO, More than one month -80C in DMSO

## Solubility

DMSO 89mg/mL, Ethanol 4mg/mL

## Preparing Stock Solutions

| Stock Solution (1ml DMSO) | 1mM    | 10mM   | 20mM   | 50mM    |
|---------------------------|--------|--------|--------|---------|
| Mass(mg)                  | 0.4469 | 4.4690 | 8.9380 | 22.3450 |

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## References

1. Baselga J, Averbuch SD . ZD1839 ('Iressa') as an anticancer agent. *Drugs*. 2000;60 Suppl 1:33-40; discussion 41-2.
2. Ciardiello F, Caputo R, Bianco R, Damiano V, Pomatico G, De Placido S, Bianco AR, Tortora G . Antitumor effect and potentiation of cytotoxic drugs activity in human cancer cells by ZD-1839 (Iressa), an epidermal growth factor receptor-selective tyrosine kinase inhibitor. *Clin Cancer Res*. 2000 May;6(5):2053-63.
3. McKillop D, Partridge EA, Kemp JV, Spence MP, Kendrew J, Barnett S, Wood PG, Giles PB, Patterson AB, Bichat F, Guilbaud N, Stephens TC . Tumor penetration of gefitinib (Iressa), an epidermal growth factor receptor tyrosine kinase inhibitor. *Mol Cancer Ther*. 2005 Apr;4(4):641-9.

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## Ordering Information

To order more of this or any other SYNkinase compound, go to [synkinase.com](http://synkinase.com), Call us Toll Free (US Only) at 1- 877-854-6273 or email [orders@synkinase.com](mailto:orders@synkinase.com).

Product Datasheet (Rev. 1.1)