

# Erlotinib HCl

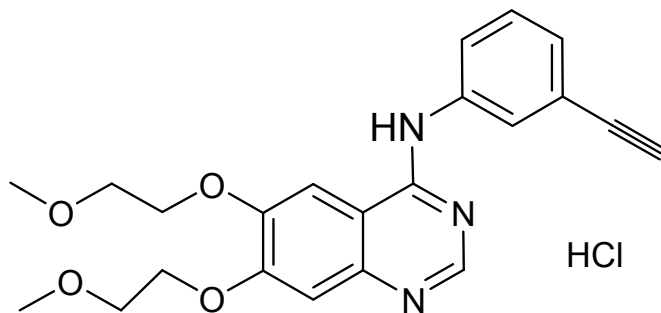
SYN-1039

N-(3-ethynylphenyl)-6,7-bis(2-methoxyethoxy)4-Quinazolinamine hydrochloride

CAS Registry No.: 183319-69-9

**Smiles String:**

COCCOc1cc2c(cc1OCCOC)ncnc2Nc3ccc(c3)C#C



Molecular Weight: 429.9

Molecular Formula: C<sub>22</sub>H<sub>23</sub>N<sub>3</sub>O<sub>4</sub>.HCl

Lot Number: Refer to vial

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

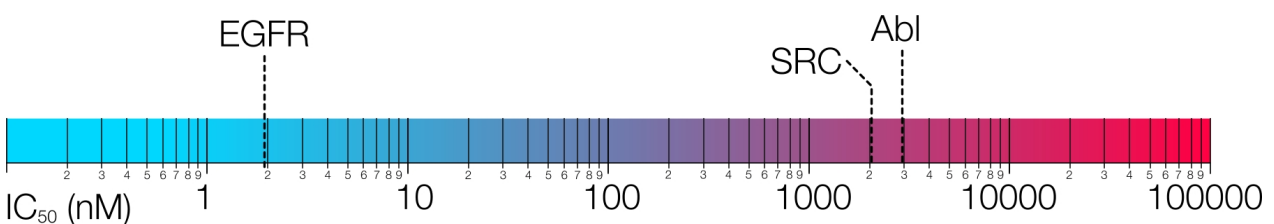
HPLC (Purity): > 95.0% @ 254 nm

ES-MS: Available on request

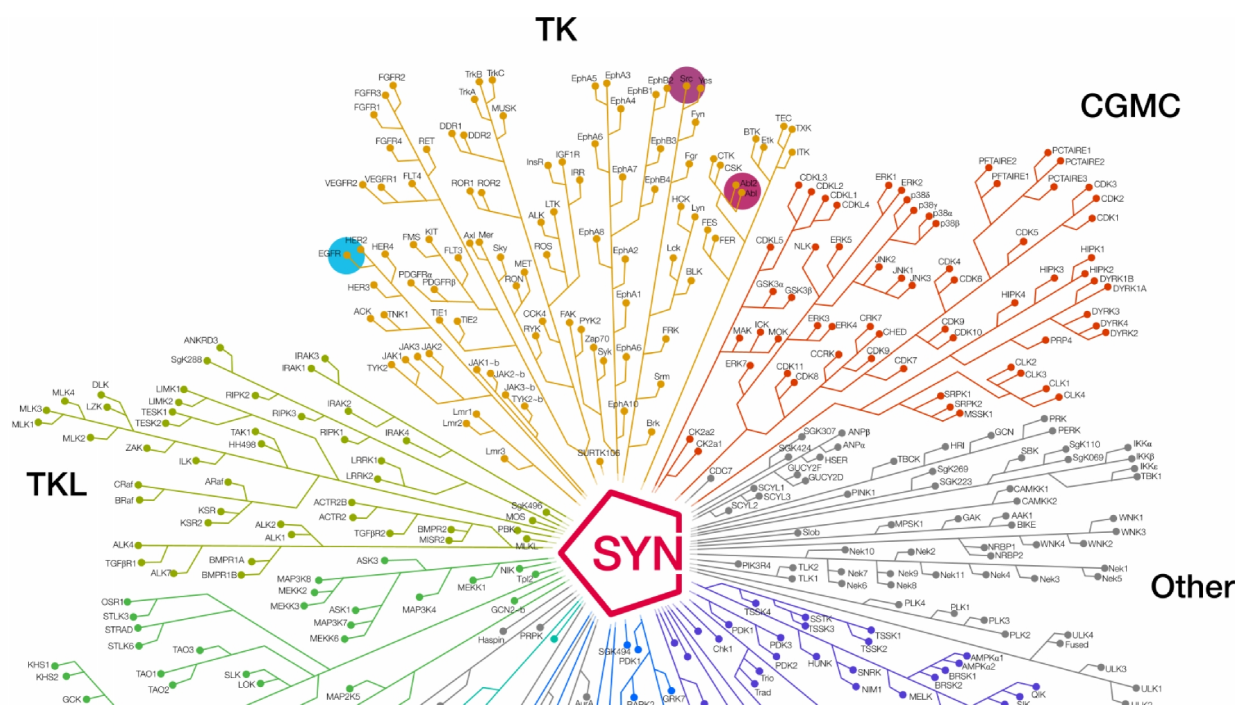
## Description:

Erlotinib inhibits EGFR tyrosine kinase auto-phosphorylation. Studies in cell lines and enzyme assays have shown that erlotinib inhibits EGFR at concentrations significantly lower than those needed to inhibit c-src and v-abl. It has an IC<sub>50</sub> of 2 nM against EGFR. It is >1000-fold more sensitive for EGFR than for c-Src or v-Abl.

## 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 3mg/mL, Ethanol <1mg/mL

## Preparing Stock Solutions

Stock Solution (1ml DMSO)	1mM	10mM	20mM	50mM
Mass(mg)	0.4299	4.2990	8.5980	21.4950

---

## References

1. Johnson JR, Cohen M, Sridhara R, Chen YF, Williams GM, Duan J, Gobburu J, Booth B, Benson K, Leighton J, Hsieh LS, Chidambaram N, Zimmerman P, Pazdur R . Approval summary for erlotinib for treatment of patients with locally advanced or metastatic non-small cell lung cancer after failure of at least one prior chemotherapy regimen. Clin Cancer Res. 2005 Sep 15;11(18):6414-21.

---

## 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)