

Product Name: Erlotinib Hydrochloride

Catalog No.: 7194

Batch No.: 1

CAS Number: 183319-69-9

IUPAC Name: *N*-(3-Ethynylphenyl)-6,7-bis(2-methoxyethoxy)-4-quinazolinamine hydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₂H₂₃N₃O₄.HCl.

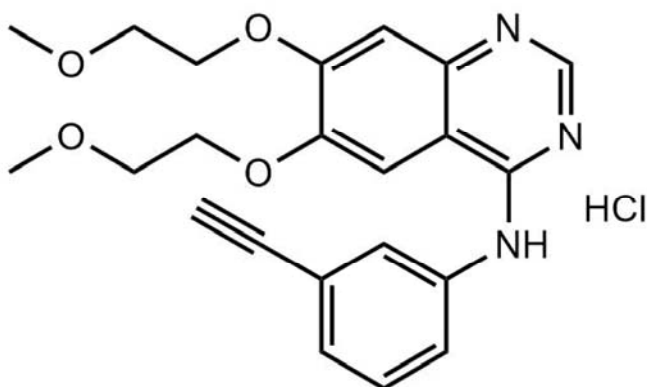
Batch Molecular Weight: 429.9

Physical Appearance: White solid

Solubility: DMSO to 20 mM

Storage: Store at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.6% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	61.47	5.63	9.77
Found	61.43	5.64	9.76

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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Description:

Erlotinib hydrochloride is a reversible, potent EGFR tyrosine kinase inhibitor ($IC_{50} = 2$ nM); it reduces EGFR autophosphorylation in intact tumor cells ($IC_{50} = 20$ nM). Erlotinib is selective for cell lines showing PC-9 and H3255 mutations (IC_{50} values are 7 and 12 nM, respectively, sparing wild-type and T790 mutant EGFR. Erlotinib shows antiproliferative effects in cancer cell lines in vitro and promotes differentiation of urothelial organoids. Orally bioavailable.

Physical and Chemical Properties:

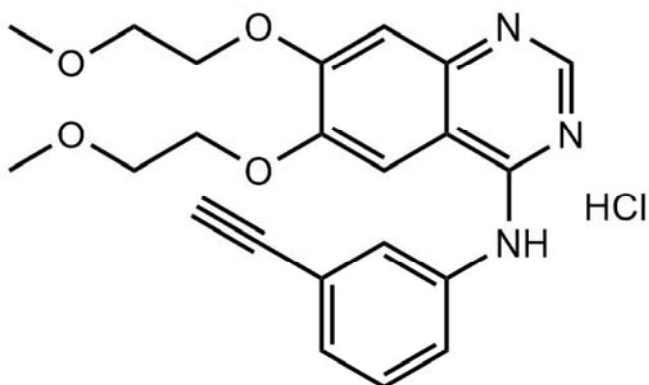
Batch Molecular Formula: $C_{22}H_{23}N_3O_4 \cdot HCl$.

Batch Molecular Weight: 429.9

Physical Appearance: White solid

Minimum Purity: $\geq 98\%$

Batch Molecular Structure:



Storage: Store at $-20^{\circ}C$

Solubility & Usage Info:

DMSO to 20 mM

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a $45-60^{\circ}C$ water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at $-20^{\circ}C$ or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References:

Santos et al (2019) Urothelial organoids originating from Cd49^{high} mouse stem cells display Notch-dependent differentiation capacity. *Nat. Commun.* **10**. PMID: 31562298.

Moyer et al (1997) Induction of apoptosis and cell cycle arrest by CP-358,774, an inhibitor of epidermal growth factor receptor tyrosine kinase. *Cancer Res.* **57** 4838. PMID: 9354447.

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