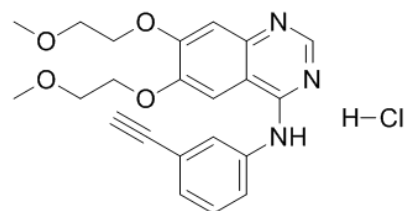


**Product Name** : Erlotinib hydrochloride  
**Cat. No.** : PC-42822  
**CAS No.** : 183319-69-9  
**Molecular Formula** : C<sub>22</sub>H<sub>24</sub>ClN<sub>3</sub>O<sub>4</sub>  
**Molecular Weight** : 429.8967  
**Target** : EGFR  
**Solubility** :



## Biological Activity

Erlotinib hydrochloride (CP-358774; OSI-774; NSC 718781) is a potent, selective inhibitor of **EGFR** with IC<sub>50</sub> of 2 nM. Erlotinib reduces EGFR autophosphorylation in intact tumor cells with an IC<sub>50</sub> of 20 nM. Erlotinib inhibits the proliferation of DiFi human colon tumor cells at submicromolar concentrations in cell culture and blocks cell cycle progression at the G1 phase. Erlotinib 100mg/kg completely prevents EGF-induced autophosphorylation of EGFR in human HN5 tumors growing as xenografts in athymic mice and of the hepatic EGFR of the treated mice; orally active.

## References

- Ng SS, et al. Mol Cancer Ther. 2002 Aug;1(10):777-83.  
Moyer JD, et al. Cancer Res. 1997 Nov 1;57(21):4838-48.  
Pollack VA, et al. J Pharmacol Exp Ther. 1999 Nov;291(2):739-48.

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

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