

# Icotinib (Hydrochloride)

## Catalog No: tcsc0918

Available Sizes

Size: 5mg

Size: 10mg

Size: 50mg

Specifications

CAS No:

1204313-51-8

Formula:

C<sub>22</sub>H<sub>22</sub>CIN<sub>3</sub>O<sub>4</sub>

**Pathway:** JAK/STAT Signaling;Protein Tyrosine Kinase/RTK

**Target:** 

EGFR;EGFR

Purity / Grade:

#### Solubility:

10 mM in DMSO

Alternative Names:

BPI-2009H

#### **Observed Molecular Weight:**

427.88

### **Product Description**

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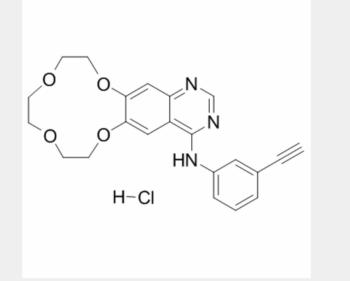


Icotinib Hydrochloride (BPI-2009) is a potent and specific **EGFR** inhibitor with an **IC**<sub>50</sub> of 5 nM; also inhibits mutant EGFR<sup>L858R</sup>, EGFR  $L^{858R/T790M}$ , EGFR<sup>T790M</sup> and EGFR<sup>L861Q</sup>.

IC50 & Target: IC50: 5 nM (EGFR)<sup>[1]</sup>

*In Vitro:* Incubation with Iconitib at 0.5  $\mu$ M results in kinase activity inhibition of 91%, 99%, 96%, 61% and 61%, respectively. Iconitib inhibits the proliferation of A431 and BGC-823 A549, H460 and KB cell lines with IC<sub>50</sub>s of 1, 4.06, 12.16, 16.08, 40.71  $\mu$ M. When profiled with 88 kinases, Icotinib only shows meaningful inhibitory activity to EGFR and its mutants. Icotinib blocks EGFRmediated intracellular tyrosine phosphorylation (IC<sub>50</sub>=45 nM) in the human epidermoid carcinoma A431 cell line and inhibits tumor cell proliferation<sup>[1]</sup>.

*In Vivo:* Icotinib exhibits potent dose-dependent antitumor effects in nude mice carrying a variety of human tumor-derived xenografts. The drug is well tolerated at doses up to 120 mg/kg/day in mice without mortality or significant body weight loss during the treatment. Icotinib inhibits tumor growth at a rate of 25.2%, 45.6% and 51.5% in the A431 cell line groups; 3.4%, 25.9% and 31.0% in the A549 cell line groups; 49.4%, 52.6% and 67.4% in the H460 cell line groups, and 30.3%, 36.4% and 46.5% in the HCT8 cell line groups, at 30, 60 and 120 mg/kg/dose, respectively<sup>[1]</sup>.



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