# PKI-166 hydrochloride

Cat. No.: HY-110328 CAS No.: 2230253-82-2 Molecular Formula:  $C_{20}H_{19}CIN_4O$ 

Molecular Weight: 366.84 EGFR Target:

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

Storage: Please store the product under the recommended conditions in the Certificate of

Analysis.

**Product** Data Sheet

### **BIOLOGICAL ACTIVITY**

<b>Description</b> PKI-166 hydrochloride is a potent, selective and orally active EGFR tyrosine kinase inhibitor, with an IC <sub>50</sub> of 0.7 r
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IC<sub>50</sub> & Target IC50: 0.7 nM (EGFR tyrosine kinase)[1]

In Vitro PKI-166 hydrochloride (0-0.5 μM; 1 hour; pretreatment) inhibits EGFR autophosphorylation in human pancreatic cancer cells

[1]

PKI-166 hydrochloride (0.03  $\mu$ M; 6 days) enhances the cytotoxicity mediated by gemcitabine<sup>[1]</sup>.

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Western Blot Analysis $^{[1]}$ 

Cell Line:	L3.6pl cells
Concentration:	0.01 μΜ, 0.05 μΜ, 0.5 μΜ
Incubation Time:	1 hour
Result:	Inhibited EGFR autophosphorylation in a dose-dependent manner.

### Cell Cytotoxicity Assay<sup>[1]</sup>

Cell Line:	L3.6pl cells
Concentration:	0.03 μM
Incubation Time:	6 days
Result:	Enhanced the cytotoxicity mediated by gemcitabine.

# In Vivo

PKI-166 hydrochloride (100 mg/kg; p.o.; daily; for 29 days) inhibits of pancreatic cancer growth [1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model:	Male athymic nude mice with L3.6pl cells xenograft (8-12 weeks) $^{\left[1 ight]}$
Dosage:	100 mg/kg

Administration	Oral administration: daily for 20 days
Auministration.	Oral administration; daily; for 29 days
Result:	Significantly decreased median tumor volume.

## **REFERENCES**

[1]. Bruns CJ, et al. Blockade of the epidermal growth factor receptor signaling by a novel tyrosine kinase inhibitor leads to apoptosis of endothelial cells and therapy of human pancreatic carcinoma. Cancer Res. 2000 Jun 1;60(11):2926-35.

Caution: Product has not been fully validated for medical applications. For research use only.

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Page 2 of 2 www.MedChemExpress.com