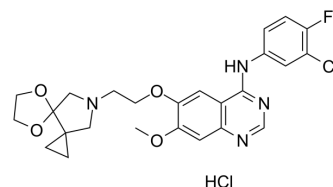


Simotinib hydrochloride

Cat. No.:	HY-101820A
CAS No.:	1538617-88-7
Molecular Formula:	C ₂₅ H ₂₇ Cl ₂ FN ₄ O ₄
Molecular Weight:	537.41
Target:	EGFR
Pathway:	JAK/STAT Signaling; Protein Tyrosine Kinase/RTK
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Simotinib hydrochloride is a selective, specific, and orally bioavailable EGFR tyrosine kinase inhibitor, with an IC ₅₀ of 19.9 nM. Antineoplastic activities ^[1] .
IC₅₀ & Target	EGFR 19.9 nM (pIC ₅₀)
In Vitro	Simotinib hydrochloride inhibits in a dose-dependent manner EGFR and the growth of human A431 tumor cells with high expression of EGFR, with no significant activity on other investigated kinases ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	Simotinib hydrochloride has been shown to exert its antitumor activity by inhibiting EGFR phosphorylation in nude xenograft model ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Hu XS, et al. Safety, tolerability, and pharmacokinetics of simotinib, a novel specific EGFR tyrosine kinase inhibitor, in patients with advanced non-small cell lung cancer: results of a phase Ib trial. *Cancer Manag Res.* 2019;11:4449-4459. Published 2019 May 13.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA