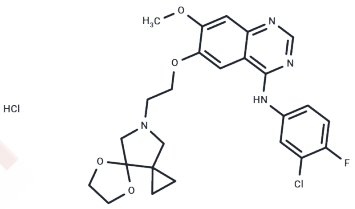
Data Sheet (Cat.No.T39019)

TargetMol

Simotinib hydrochloride

Chemical Properties



CAS No. : 1538617-88-7

Formula: C25H27Cl2FN4O4

Molecular Weight: 537.41

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.

Biological Description

Description	Simotinib hydrochloride is a selective and orally bioavailable EGFR tyrosine kinase inhibitor, showing strong specificity with an IC 50 of 19.9 nM. This compound exhibits potent antineoplastic activities.
Targets(IC50)	EGFR,Others
In vitro	Simotinib hydrochloride effectively inhibits EGFR and suppresses the growth of human A431 tumor cells, which highly express EGFR, in a dose-dependent manner. It demonstrates no significant activity against other kinases studied[1].
In vivo	Simotinib hydrochloride demonstrates antitumor efficacy through the inhibition of EGFR phosphorylation within a nude xenograft model[1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.8608 mL	9.3039 mL	18.6078 mL
5 mM	0.3722 mL	1.8608 mL	3.7216 mL
10 mM	0.1861 mL	0.9304 mL	1.8608 mL
50 mM	0.0372 mL	0.1861 mL	0.3722 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

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.

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481