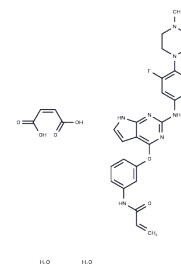


Avitinib maleate dihydrate

Chemical Properties

CAS No. :	1822357-78-7
Formula:	C30H34FN7O8
Molecular Weight:	639.631
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	Avitinib (Abivertinib) maleate dihydrate is a third-generation, irreversible, orally active selective EGFR inhibitor with IC50 values of 0.18 nM for EGFR L858R and EGFR T790M, and 7.68 nM for wild-type EGFR. Additionally, Avitinib maleate dihydrate functions as a BTK inhibitor, promoting apoptosis in mantle cell lymphoma cells and inhibiting BTK phosphorylation, demonstrating anticancer properties.
Targets(IC50)	Apoptosis,EGFR,BTK
In vitro	Avitinib maleate dihydrate (AC0010; 0.13 nM-2 μM; 2 h) selectively inhibits the phosphorylation of mutant EGFR in NCI-H1975 and NIH/3T3_TC32T8 cells, with IC 50 values of 7.3 nM and 2.8 nM, showing approximately 115-fold and 298-fold greater sensitivity compared to wild-type EGFR in A431 cells. This compound effectively suppresses EGFR-Tyr1068 phosphorylation in NCI-H1975 cells, exhibiting a selectivity ratio for NCI-H1975 over A431 cells of 65-fold. Additionally, Avitinib maleate dihydrate inhibits the phosphorylation of downstream targets Akt and ERK1/2 in both NCI-H1975 and HCC827 cells [1].
In vivo	Avitinib maleate dihydrate (AC0010; 12.5-500 mg/kg; oral; once daily; for 14 days) effectively inhibits the growth of EGFR mutant tumors in xenograft models over an extended period, without affecting the growth of wild-type EGFR tumors [1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.5634 mL	7.817 mL	15.634 mL
5 mM	0.3127 mL	1.5634 mL	3.1268 mL
10 mM	0.1563 mL	0.7817 mL	1.5634 mL
50 mM	0.0313 mL	0.1563 mL	0.3127 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

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