

Ifebemtinib FA

Chemical Properties

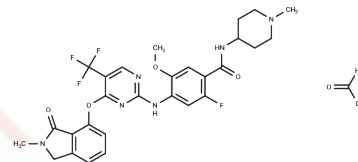
CAS No. :

Formula: C₂₉H₃₀F₄N₆O₆

Molecular Weight: 634.58

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	Ifebemtinib FA (BI-853520 FA) is an orally active and potent inhibitor of adhesion patch kinase (FAK) with anticancer and antiproliferative activity for the study of ovarian and lung cancer.
Targets(IC ₅₀)	FAK
In vitro	The compound Ifebemtinib FA (BI-853520 FA) inhibits cancer cell growth at concentrations ranging from 0 to 3 μM for 2 hours[2]. Repression of tumor cell proliferation and invasion in 3D culture is observed with Ifebemtinib FA at concentrations from 0 to 30 μM for 4-6 days[1]. Additionally, Ifebemtinib FA represses Y397-FAK autophosphorylation at concentrations ranging from 0 to 10 μM for 24 hours, and at a concentration of 0.1 μM for 96 hours, Ifebemtinib FA demonstrates a fast and potent inhibition of FAK in this highly metastatic murine breast cancer cell line[3].
In vivo	The oral gavage treatment of Ifebemtinib FA (BI-853520 FA) at a dose of 50 mg/kg once daily for 0-8 weeks significantly suppresses the primary tumor growth of all three cell lines in vivo[3].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.5758 mL	7.8792 mL	15.7585 mL
5 mM	0.3152 mL	1.5758 mL	3.1517 mL
10 mM	0.1576 mL	0.7879 mL	1.5758 mL
50 mM	0.0315 mL	0.1576 mL	0.3152 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

Ulrich A Hirt, et al. Efficacy of the highly selective focal adhesion kinase inhibitor BI 853520 in adenocarcinoma xenograft models is linked to a mesenchymal tumor phenotype. *Oncogenesis*. 2018 Feb 23;7(2):21.

Stefanie Tiede, et al. The FAK inhibitor BI 853520 exerts anti-tumor effects in breast cancer. *Oncogenesis*. 2018 Sep 20;7(9):73.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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