

Uplarafenib

Chemical Properties

CAS No. : 1425485-87-5

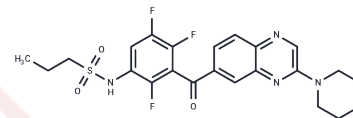
Formula: C₂₂H₂₁F₃N₄O₄S

Molecular Weight: 494.49

Store at low temperature

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	Uplarafenib (B-Raf IN 10) is a potent BRAF inhibitor with an IC ₅₀ of 50-100 nM. B-Raf IN 10 exhibits antitumor activity that may influence cell proliferation and differentiation, making it suitable for studying solid tumors.
Targets(IC ₅₀)	Raf
In vitro	Uplarafenib (1 μM) shows more than 89% inhibition against BRAF and BRAF V600E [1]. Uplarafenib shows an IC ₅₀ between 50 and 100 nM against BRAF, and less than 50 nM against BRAF V600E.[1] Uplarafenib (72 h) inhibits A375 and SK-MEL-28 cell growth but not CHL-1 and SK-MEL-31 cells [1]. Cell Viability Assay.[1] Cell Line: A375, SK-MEL-28, SK-MEL-31, and CHL-1 Concentration: Incubation Time: 72 h Result: Showed inhibition with IC ₅₀ s less than 500 nM against A375 and SK-MEL-28 cells, and showed no inhibition against CHL-1 and SK-MEL-31.

Solubility Information

Solubility	DMSO: 90 mg/mL (182.01 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.0223 mL	10.1114 mL	20.2229 mL
5 mM	0.4045 mL	2.0223 mL	4.0446 mL
10 mM	0.2022 mL	1.0111 mL	2.0223 mL
50 mM	0.0404 mL	0.2022 mL	0.4045 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

Yong-Liang Zhu, et al. Certain Chemical Entities, Compositions, and Methods. US20130053384 A1.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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