

PF-04880594

Chemical Properties

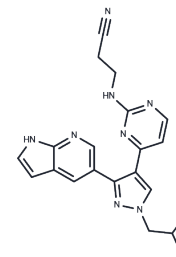
CAS No. : 1111636-35-1

Formula: C₁₉H₁₆F₂N₈

Molecular Weight: 394.38

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	PF-04880594 is a potent and selective RAF inhibitor targeting both wild-type and mutant BRAF and CRAF, exhibiting antitumor activity [1].
Targets(IC50)	Raf,Others
In vitro	PF-04880594 (100 nM, 48 h) causes ERK activation and stimulation of IL-8 release, both blocked by the treatment of PD-0325901 [1]. Western Blot Analysis [1] Cell Line: HL-60 Concentration: 100 nM alone or in combination with 100 nM PD-0325901 Incubation Time: 48 h Result: Induced ERK phosphorylation and induced IL-8 production. PD-0325901 treatment blocked the induction.
In vivo	PF-04880594, administered at 10 mg/kg, was observed to induce ERK phosphorylation and BRAF-CRAF dimerization across multiple epithelial tissues in mice, with the effects being mitigable by co-treatment with PD0325901. Additionally, when administered at doses ranging from 0-40 mg/kg twice daily over three weeks, PF-04880594 led to epithelial hyperplasia in mice, a condition that was effectively prevented by PD0325901. In experiments involving nude mice, a single day's administration of 10 mg/kg PF-04880594, followed by a dose 2 hours before necropsy on the next day, resulted in ERK phosphorylation within urinary bladder, tongue, skin, and esophagus tissues, which was attenuated by a concurrent administration of 0.5 mg/kg PD0325901. Continuous administration of PF-04880594, at dosages of 10, 20, and 40 mg/kg in combination with varying doses of PD-0325901 (0.1, 0.3, 0.5, 1.0, or 2.5 mg/kg) for three weeks, highlighted microscopic pathologies typical of unopposed BRAF inhibition and reported that hyperplasia in nonglandular stomach epithelium could be obstructed by PD0325901.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.5356 mL	12.6781 mL	25.3563 mL
5 mM	0.5071 mL	2.5356 mL	5.0713 mL
10 mM	0.2536 mL	1.2678 mL	2.5356 mL
50 mM	0.0507 mL	0.2536 mL	0.5071 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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