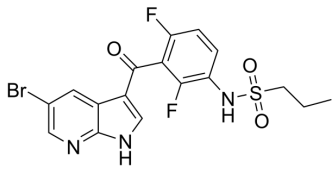
B-Raf IN 11

Cat. No.:	HY-77113
CAS No.:	918504-27-5
Molecular Formula:	$C_{17}H_{14}BrF_2N_3O_3S$
Molecular Weight:	458.28
Target:	Raf
Pathway:	MAPK/ERK Pathway
Storage:	Powder -20°C 3 years 4°C 2 years In solvent -80°C 6 months -20°C 1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (218.21 mM; Need ultrasonic)

Preparing Stock Solutions

Solvent / Mass / Concentration	1 mg	5 mg	10 mg
1 mM	2.1821 mL	10.9104 mL	21.8207 mL
5 mM	0.4364 mL	2.1821 mL	4.3641 mL
10 mM	0.2182 mL	1.0910 mL	2.1821 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
   Solubility: ≥ 2.5 mg/mL (5.46 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.5 mg/mL (5.46 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

B-Raf IN 11 (ZINC72115182) is a selective B-Raf^{V600E} inhibitor (IC_{50}=76 nM), shows selectivity for B-Raf^{V600E} over B-Raf^{WT} with selectivity of 3.1-fold. B-Raf IN 11 can be used in colorectal cancer research[1]

IC_{50} & Target

B-Raf^{V600E}	BRAF^{WT}
76 nM (IC_{50})	238 nM (IC_{50})

REFERENCES

[1]. Yao H, et al. Identification and Characterization of Small-Molecule Inhibitors to Selectively Target the DFG-in over the DFG-out Conformation of the B-Raf Kinase V600E Mutant in Colorectal Cancer. Arch Pharm (Weinheim). 2016 Oct;349(10):808-815.

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