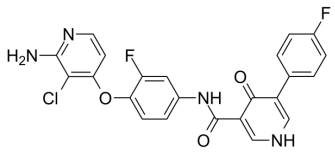
BMS-794833

Cat. No.:	HY-10497
CAS No.:	1174046-72-0
Molecular Formula:	$C_{23}H_{15}ClF_2N_4O_3$
Molecular Weight:	468.84
Target:	c-Met/HGFR; VEGFR
Pathway:	Protein Tyrosine Kinase/RTK
Storage:	Powder -20°C 3 years 4°C 2 years In solvent -80°C 2 years -20°C 1 year



SOLVENT & SOLUBILITY

In Vitro

DMSO : ≥ 100 mg/mL (213.29 mM)

* "≥" means soluble, but saturation unknown.

Preparing Stock Solutions

Solvent / Mass / Concentration	1 mg	5 mg	10 mg
1 mM	2.1329 mL	10.6646 mL	21.3292 mL
5 mM	0.4266 mL	2.1329 mL	4.2658 mL
10 mM	0.2133 mL	1.0665 mL	2.1329 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 (5.33 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.5 mg/mL (5.33 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

BMS-794833 is a VEGFR2 and Met inhibitor extracted from patent WO2009094417, compound example 1; has IC_{50}s of 15 and 1.7 nM, respectively.

IC_{50} & Target

VEGFR2	Met
15 nM (IC_{50})	1.7 nM (IC_{50})

In Vitro

BMS794833 inhibits Met receptor activated gastric carcinoma cell line, GTL-16, with an IC_{50} of 39 nM[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

In Vivo	BMS-794833 is active by greater than 50% tumor growth inhibition for at least one tumor doubling time in the GTL-16 gastric carcinoma model. No toxicity is observed at any of the dose levels when administered once daily for a duration of 14 days[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

PROTOCOL

Cell Assay [1]	GTL-16 cells are inoculated in to 96 well microtiter plates in 0.5% fetal calf serum and incubated at 37°C, 5% CO_2, 95% air and 100% relative humidity for 24 h prior to addition of a compound. Cells are treated with BMS-794833 for an additional 72 h. Growth inhibition is calculated[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. WO2009094417

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