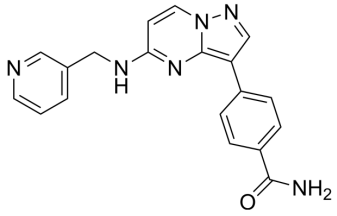
RET V804M-IN-1

Cat. No.:	HY-136534
CAS No.:	2414909-94-5
Molecular Formula:	$C_{19}H_{16}N_6O$
Molecular Weight:	344.37
Target:	RET
Pathway:	Protein Tyrosine Kinase/RTK
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 : 125 mg/mL (362.98 mM; Need ultrasonic)

Preparing Stock Solutions

Solvent / Mass / Concentration	1 mg	5 mg	10 mg
1 mM	2.9039 mL	14.5193 mL	29.0385 mL
5 mM	0.5808 mL	2.9039 mL	5.8077 mL
10 mM	0.2904 mL	1.4519 mL	2.9039 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: ≥ 2.08 mg/mL (6.04 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.08 mg/mL (6.04 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.08 mg/mL (6.04 mM); Clear solution

BIOLOGICAL ACTIVITY

Description	RET V804M-IN-1 (compound 5) is a wt-RET -selective inhibitors of RETV804M kinase, with an IC_{50} of 20 nM[1].
IC_{50} & Target	IC50: 20 nM (RETV804M)[1].
In Vitro	RET V804M-IN-1 (compound 5) exhibits 3.7 and 110 fold selectivity compared to wt-RET and KDR, respectively[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Rebecca Newton, et al. Discovery and Optimization of wt-RET/KDR-Selective Inhibitors of RET V804M Kinase. ACS Med Chem Lett. 2020 Feb 28;11(4):497-505.

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