Proteins

Product Data Sheet

RET-IN-3

Cat. No.: HY-133553 CAS No.: 2414374-53-9 Molecular Formula: $C_{18}H_{21}N_5O_2$

Molecular Weight: 339 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: 100 mg/mL (294.99 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg	10 mg
	1 mM	2.9499 mL	14.7493 mL	29.4985 mL
	5 mM	0.5900 mL	2.9499 mL	5.8997 mL
	10 mM	0.2950 mL	1.4749 mL	2.9499 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 (7.37 mM); Clear solution
- 2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE- β -CD in saline) Solubility: ≥ 2.5 mg/mL (7.37 mM); Clear solution

BIOLOGICAL ACTIVITY

Description	RET-IN-3 (compound 34) is a selective RETV804M kinase inhibitor, with an IC_{50} of 19 $nM^{[1]}$.		
IC ₅₀ & Target	IC50: 19 nM (RETV804M) ^[1] .		
In Vitro	RET-IN-3 exhibits 16 and 410 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

Ly Rebecto Newton, et al. Bisowery and Optimization of set RET/ROR Selective Imitisions of RET V89444 Rivace. ACS Med Chem Leat. 2020 Teb 26; II (4):497-505. Caution: Product has not been fully validated for medical applications. For research use only. Tel: 609-228-6888 Fax: 609-228-5999 E-mail: tech@MedChemExpress.com Address: 1 Deer Park Dr. Suite Q, Monmouth Junction, NJ 08852, USA					
Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com	1]. Rebecca Newton, et al. Disco	overy and Optimization of wt-RET/	KDR-Selective Inhibitors of RET	V804M Kinase. ACS Med Chem Le	ett. 2020 Feb 28;11(4):497-505.
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