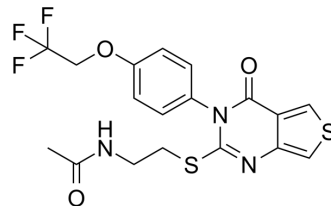


T-3364366

Cat. No.:	HY-124346		
CAS No.:	1356354-09-0		
Molecular Formula:	C ₁₈ H ₁₆ F ₃ N ₃ O ₃ S ₂		
Molecular Weight:	443.46		
Target:	Others		
Pathway:	Others		
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 (281.87 mM; Need ultrasonic)

Concentration	Solvent	Mass	Preparing Stock Solutions		
			1 mg	5 mg	10 mg
1 mM			2.2550 mL	11.2750 mL	22.5499 mL
5 mM			0.4510 mL	2.2550 mL	4.5100 mL
10 mM			0.2255 mL	1.1275 mL	2.2550 mL

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

In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
Solubility: 2.08 mg/mL (4.69 mM); Suspended solution; Need ultrasonic
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 2.08 mg/mL (4.69 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

T-3364366 is a reversible, slow-binding, thienopyrimidinone delta-5 desaturase (D5D) inhibitor with IC₅₀s of 1.9 nM and 2.1 nM in HepG2 and RLN-10 cells, respectively. T-3364366 exhibits potent D5D (IC₅₀=19 nM) inhibitory activity and excellent selectivity away from delta-6 desaturase (D6D, IC₅₀=6200 nM) and delta-9 desaturase (stearoyl-CoA desaturase, SCD₅₀ >10000 nM) in the enzymatic activity assay^[1].

REFERENCES

- [1]. Ikuo Miyahisa, et al. T-3364366 Targets the Desaturase Domain of Delta-5 Desaturase with Nanomolar Potency and a Multihour Residence Time. ACS Med Chem Lett.

Caution: Product has not been fully validated for medical applications. For research use only.

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