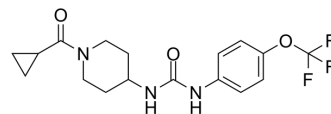


sEH inhibitor-1

Cat. No.:	HY-120494		
CAS No.:	1208549-68-1		
Molecular Formula:	C ₁₇ H ₂₀ F ₃ N ₃ O ₃		
Molecular Weight:	371.35		
Target:	Epoxide Hydrolase		
Pathway:	Metabolic Enzyme/Protease		
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 (336.61 mM; Need ultrasonic)

Concentration	Mass		
	1 mg	5 mg	10 mg
1 mM	2.6929 mL	13.4644 mL	26.9288 mL
5 mM	0.5386 mL	2.6929 mL	5.3858 mL
10 mM	0.2693 mL	1.3464 mL	2.6929 mL

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

BIOLOGICAL ACTIVITY

Description

sEH inhibitor-1 (compound TCPU) is a potent and oral active inhibitor of sEH (soluble epoxide hydrolase) with IC₅₀s of 0.4 and 5.3 nM in human and murine, respectively^[1].

IC₅₀ & Target

sEH^[1]

In Vivo

Pharmacokinetic parameters of sEH inhibitor-1 (TCPU) after oral gavage with a non-compartmental analysis^[1].

Doses (mg/kg)	C _{max} ^a (nmol/L)	T _{max} (h) ^a	AUC _t (uM·h) ^a	MRT (h) ^a
0.1 (0.27 ^d)	270±120	5.3±1.2	2.2±1.1	18.9±6.6
0.3 (0.81 ^d)	1680±1170	4.7±1.2	16.6±8.8	16.9±5.4

1.0 (2.69 ^d)	2560±95	3.2±2.2	43.8±5.1	24.0±1.8
3.0 (8.08 ^d)	5160±265	3.9±2.5	94.3±8.0	32.1±5.6

a: T_{max}, the time of maximum concentration; C_{max}, the maximum blood concentration; MRT, the mean residence time; and AUC_t, area under the concentration–time curve to terminal time. Additional PK parameters with non-compartmental model are presented in Table S3.

d: The dose with the unit of μmol/kg.

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

REFERENCES

[1]. Liu JY, et al. Substituted phenyl groups improve the pharmacokinetic profile and anti-inflammatory effect of urea-based soluble epoxide hydrolase inhibitors in murine models. *Eur J Pharm Sci.* 2013;48(4-5):619-627.

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

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