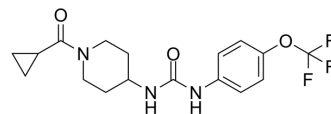


## sEH inhibitor-1

Cat. No.:	HY-120494
CAS No.:	1208549-68-1
Molecular Formula:	C <sub>17</sub> H <sub>20</sub> F <sub>3</sub> N <sub>3</sub> O <sub>3</sub>
Molecular Weight:	371.35
Target:	Epoxide Hydrolase
Pathway:	Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	sEH inhibitor-1 (compound TCPU) is a potent and oral active inhibitor of sEH (soluble epoxide hydrolase) with IC <sub>50</sub> s of 0.4 and 5.3 nM in human and murine, respectively <sup>[1]</sup> .				
<b>IC<sub>50</sub> &amp; Target</b>	sEH <sup>[1]</sup>				
<b>In Vivo</b>	Pharmacokinetic parameters of sEH inhibitor-1 (TCPU) after oral gavage with a non-compartmental analysis <sup>[1]</sup> .				
	Doses (mg/kg)	C <sub>max</sub> <sup>a</sup> (nmol/L)	T <sub>max</sub> (h) <sup>a</sup>	AUC <sub>t</sub> (uM·h) <sup>a</sup>	MRT (h) <sup>a</sup>
	0.1 (0.27 <sup>d</sup> )	270±120	5.3±1.2	2.2±1.1	18.9±6.6
	0.3 (0.81 <sup>d</sup> )	1680±1170	4.7±1.2	16.6±8.8	16.9±5.4
	1.0 (2.69 <sup>d</sup> )	2560±95	3.2±2.2	43.8±5.1	24.0±1.8
	3.0 (8.08 <sup>d</sup> )	5160±265	3.9±2.5	94.3±8.0	32.1±5.6
	<p>a: T<sub>max</sub>, the time of maximum concentration; C<sub>max</sub>, the maximum blood concentration; MRT, the mean residence time; and AUC<sub>t</sub>, area under the concentration–time curve to terminal time. Additional PK parameters with non-compartmental model are presented in Table S3.</p> <p>d: The dose with the unit of μmol/kg.</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>				

### 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.

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

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