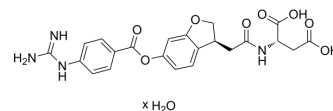


Sucnamostat hydrate

Cat. No.:	HY-130126
Molecular Formula:	C ₂₂ H ₂₂ N ₄ O ₈ ·xH ₂ O
Target:	Enteropeptidase
Pathway:	Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Sucnamostat hydrate (SCO-792) is an orally active and reversible enteropeptidase inhibitor with IC ₅₀ s of 4.6 nM and 5.4 nM for rat enteropeptidase and human enteropeptidase, respectively. Sucnamostat hydrate can slowly dissociate from enteropeptidase in vitro and inhibit protein digestion in vivo ^[1] .																									
IC₅₀ & Target	IC ₅₀ : 4.6 nM (rat enteropeptidase), 5.4 nM (human enteropeptidase) ^[1]																									
In Vivo	<p>Sucnamostat hydrate (10 and 30 mg/kg; PO, single dosage) effectively and dose-dependently inhibits plasma branched-chain amino acids (BCAA) elevations induced by oral protein dosing in rats^[1].</p> <p>Pharmacokinetic Parameters of Sucnamostat hydrate in male Sprague-Dawley rats^[1].</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr style="background-color: #f2f2f2;"> <th></th> <th>PO (10 mg/kg)</th> <th>IV (2 mg/kg)</th> </tr> </thead> <tbody> <tr> <td>C_{max} (ng/mL)</td> <td>6.60 ± 1.36</td> <td>564 ± 58</td> </tr> <tr> <td>T_{max} (h)</td> <td>1.7 ± 0.6</td> <td></td> </tr> <tr> <td>AUC₀₋₂₄ (ng/mL·h)</td> <td>54.1 ± 7.5</td> <td>303 ± 23</td> </tr> <tr> <td>AUC_{inf} (ng/mL·h)</td> <td>49.8 ± 5.4</td> <td>304 ± 30</td> </tr> <tr> <td>Vd_{SS} (mL/kg)</td> <td></td> <td>1290 ± 299</td> </tr> <tr> <td>CL_p (mL/min/kg)</td> <td></td> <td>663 ± 66</td> </tr> <tr> <td>bioavailability (%)</td> <td>0.4</td> <td></td> </tr> </tbody> </table> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>			PO (10 mg/kg)	IV (2 mg/kg)	C _{max} (ng/mL)	6.60 ± 1.36	564 ± 58	T _{max} (h)	1.7 ± 0.6		AUC ₀₋₂₄ (ng/mL·h)	54.1 ± 7.5	303 ± 23	AUC _{inf} (ng/mL·h)	49.8 ± 5.4	304 ± 30	Vd _{SS} (mL/kg)		1290 ± 299	CL _p (mL/min/kg)		663 ± 66	bioavailability (%)	0.4	
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REFERENCES

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

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