

Sucunamostat hydrochloride

Chemical Properties

CAS No. :

Formula: C₂₂H₂₃ClN₄O₈

Molecular Weight: 506.89

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.

Biological Description

Description	Sucunamostat (SCO-792) hydrochloride is an orally active, reversible inhibitor of enteropeptidase, displaying inhibition constants (IC ₅₀) of 4.6 nM for rat enteropeptidase and 5.4 nM for human enteropeptidase. In vitro, it dissociates slowly from enteropeptidase, while in vivo, it hinders protein digestion [1].
Targets(IC ₅₀)	Others,Enteropeptidase (EP)
In vivo	Sucunamostat hydrochloride, administered orally in single doses of 10 and 30 mg/kg, effectively and dose-dependently inhibited the elevation of plasma branched-chain amino acids (BCAA) induced by oral protein doses in rats [1]. Pharmacokinetic parameters in male Sprague-Dawley rats for Sucunamostat hydrochloride showed the following values: PO (10 mg/kg) and IV (2 mg/kg) resulted in a C max (ng/mL) of 6.60 ± 1.36 and 564 ± 58, respectively; T max (h) was 1.7 ± 0.6; AUC 0-24 (ng/mL·h) was 54.1 ± 7.5 for PO and 303 ± 23 for IV; AUC inf (ng/mL·h) was 49.8 ± 5.4 for PO and 304 ± 30 for IV; the Vd SS (mL/kg) was recorded at 1290 ± 299; CL p (mL/min/kg) at 663 ± 66; and bioavailability was calculated at 0.4% [1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.9728 mL	9.8641 mL	19.7281 mL
5 mM	0.3946 mL	1.9728 mL	3.9456 mL
10 mM	0.1973 mL	0.9864 mL	1.9728 mL
50 mM	0.0395 mL	0.1973 mL	0.3946 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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