Product Data Sheet

Product Name: Carnostatine (SAN9812)
Cat. No.: GC34336

Chemical Properties

Cas. No.			
SMILES	OC([C@@H](NC([C@@H](O)CCN)=O)CC1=CNC=N1)=O		
Formula	$C_{10}H_{16}N_4O_4$	M.Wt	256.26
Solubility	Soluble in DMSO	Storage	Store at -20°C
General tips	For obtaining a higher solubility , please warm the tube at 37 ℃ and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20℃ for several months.		
Shipping Condition	Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.		
Structure	Carnostatine (SAN9812)		

Background

Carnostatine (SAN9812) is a specific and highly selective carnosinase (CN1) inhibitor with a Ki of 11 nM.

Carnostatine (SAN9812) is a potent CN1 activity inhibitor with an IC50 value of 18 nM on human recombinant CN1 at a carnosine concentration of 200 μM, i.e., close to the Km of 190 μM. Carnostatine is a competitive inhibitor, showing a right-shift in its IC50 value with increasing carnosine concentration. The Ki value of Carnostatine is determined as 11 nM[1].

CN1 activity is measured after a single subcutaneous bolus of 30 mg/kg Carnostatine (SAN9812). Animals are stratified according to their baseline serum carnosinase activity into a high-activity- (> 250 μmol/mL/h) and a low-activity (8 h. At the last sampling time point 16 h after Carnostatine administration, serum carnosinase activity is still reduced by 40% in the low-activity group and by 75% in the high-activity group[1].

[1]. Qiu J, et al. Identification and characterisation of carnostatine (SAN9812), a potent and selective carnosinase (CN1) inhibitor with in vivo activity. Amino Acids. 2018 Jun 20.

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