Histatin-3 TFA

Cat. No.:	HY-P5272
CAS No.:	112844-49-2
Molecular Formula:	$C_{178}H_{258}N_{64}O_{48}.xC_2HF_3O_2$
Sequence:	Asp-Ser-His-Ala-Lys-Arg-His-His-Gly-Tyr-Lys-Arg-Lys-Phe-His-Glu-Lys-His-His-Ser-His-Arg-Gly-Tyr-Arg-Ser-Asn-Tyr-Leu-Tyr-Asp-Asn DSHAKRHHGYKRKFHEKHHSHRGYRSNYLYDN (TFA salt)
Sequence Shortening:	DSHAKRHHGYKRKFHEKHHSHRGYRSNYLYDN
Target:	Bacterial
Pathway:	Anti-infection
Storage:	Sealed storage, away from moisture and light Powder -80°C 2 years -20°C 1 year * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)

SOLVENT & SOLUBILITY

In Vitro	H_2O : 50 mg/mL (Need ultrasonic)

BIOLOGICAL ACTIVITY

Description	Histatin-3 TFA, a 32 amino acid peptide, possesses powerful antimicrobial properties. Histatin-3 TFA behaves as a substrate for proprotein convertase 1 (PC1), being cleaved by this endoprotease primarily at a site carboxy terminal to the single Arg25 residue (HRGYR decrease SN). Histatin-3 TFA is a moderately potent, reversible and competitive inhibitor of the furin-mediated cleavage of the pentapeptide pGlu-Arg-Thr-Lys-Arg-MCA fluorogenic substrate, with an estimated inhibition constant K_i of 1.98 μM[1].

REFERENCES

[1]. A Basak, et al. Histidine-rich human salivary peptides are inhibitors of proprotein convertases furin and PC7 but act as substrates for PC1. J Pept Res. 1997 Jun;49(6):596-603.

Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com
Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA