

Elastase from porcine pancreas

Cat. No.:	HY-P2974	
CAS No.:	39445-21-1	
Molecular Formula:	$C_{1135}H_{1759}N_{331}O_{346}S_{10}$	
Molecular Weight:	25898.13	Elastase from porcine pancreas
Sequence Shortening:	VGGTEAQRNSWPSQISLQYRSGSSWAHTCGGTLIRQNWVMTAAHCVDRELTFRVWGEHNL NQNNGTEQYVGVQKIVWHPYWNTDDVAAGYDIALLRQAQSVTLNSYVQLGVLPRAGTILANNSP CYITGWGLTRTNGQLAQLQAYLPTVDYAICSSSYWGSTVKNSMVCAGGNGVRSQCQGDS GGPLHCLVNGQYAVHGVTSFVSRLGCNVRKPTVFTRVSAYISWINNVIASN (Disulfide bridge : Cys30-Cys46; Cys127-Cys194; Cys158- Cys174; Cys184- Cys214)	
Target:	Elastase	
Pathway:	Metabolic Enzyme/Protease	
Storage:	Powder -20°C 3 years In solvent -80°C 6 months -20°C 1 month	

SOLVENT & SOLUBILITY

In Vitro

H₂O : 50 mg/mL (1.93 mM; ultrasonic and adjust pH to 9 with NaOH)
 H₂O : 1 mg/mL (0.04 mM; Need ultrasonic)

	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	0.0386 mL	0.1931 mL	0.3861 mL
	5 mM	---	---	---
	10 mM	---	---	---

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

Elastase from porcine pancreas is a single polypeptide chain of 240 amino acid residues. Elastase from porcine pancreas is a serine protease that can hydrolyze proteins and polypeptide. Elastase from porcine pancreas can induce emphysema in hamsters^{[1][2][3]}.

In Vivo

Elastase from porcine pancreas induces emphysema in hamsters^[3].
 MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

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- [1]. Shotton DM, et, al. Amino-acid sequence of porcine pancreatic elastase and its homologies with other serine proteinases. Nature. 1970 Feb 28;225(5235):802-6.
- [2]. Teshima T, et, al. A new class of heterocyclic serine protease inhibitors. Inhibition of human leukocyte elastase, porcine pancreatic elastase, cathepsin G, and bovine chymotrypsin A alpha with substituted benzoxazinones, quinazolines, and anthranilates. J Biol Chem. 1982 May 10;257(9):5085-91.
- [3]. Stone PJ, et, al. Induction and exacerbation of emphysema in hamsters with human neutrophil elastase inactivated reversibly by a peptide boronic acid. Am Rev Respir Dis. 1990 Jan;141(1):47-52.
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Caution: Product has not been fully validated for medical applications. For research use only.

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