

## Elastase from porcine pancreas

## Chemical Properties

CAS No. : 39445-21-1

Formula:

Molecular Weight:

Elastase from porcine pancreas

Storage: Keep away from moisture, Store at low temperature,  
Keep away from direct sunlight  
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	Elastase from porcine pancreas is a serine protease derived from the porcine pancreas, consisting of 240 amino acid residues. It has the ability to hydrolyze proteins and peptides, can induce emphysema in hamsters, and is commonly used to establish animal models of chronic obstructive pulmonary disease (COPD).
Targets(IC50)	Others, Serine Protease
In vivo	Elastase from the porcine pancreas could induce emphysema in hamsters [3].

## Solubility Information

Solubility	H2O: < 1 mg/mL (insoluble), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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## Reference

- 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.
- 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.
- 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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