

Dissociation Reagents

Elastase

For digestion of native elastin



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Catalog # 07453
07454

25 mg
100 mg

Product Description

Elastase is a serine protease consisting of a single polypeptide chain of 240 amino acid residues and contains four disulfide bridges (Shotton & Hartley). Elastase is synthesized as a zymogen (proelastase) and is converted to the active form by limited trypsin proteolysis at its N-terminal. Elastase preferentially cleaves the peptide bond of C-terminal neutral, non-aromatic amino acid residues (Schellenberger et al.). Elastase is frequently used in combination with other proteases such as collagenase and trypsin to digest native elastin.

Product Information

Alternative Names:	Elastoproteinase; Lysosomal elastase; Pancreatic elastase I; Pancreatopeptidase E
Format:	Lyophilized powder
Storage:	Store at 2 - 8°C.
Stability:	Stable until expiry date (EXP) on label.
Reconstitution:	Dissociation reagents can be reconstituted in a balanced salt solution or buffer of choice.
Molecular Weight:	26.0 kDa
CAS Number:	39445-21-1
Optimum pH:	8.5
Cleavage Site:	-X- $\uparrow$ -Y- : X = uncharged, non-aromatic Y = nonspecific

Specifications

Source:	Porcine pancreas
Activity:	≥ 3 units/mg protein. See Notes for further information.

Related Products

For a complete list of dissociation reagents, as well as related products available from STEMCELL Technologies, please visit our website at www.stemcell.com or contact us at techsupport@stemcell.com.

Notes

ACTIVITY UNITS

1 unit cleaves 1 μ mol of N-succinyl-L-alanyl-L-alanyl-L-alanine-p-nitroanilide/minute at 25°C at pH 8.0.

References

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