

Product Information

Chymase human, recombinant expressed in *Pichia Pastoris*

Catalog Number **C8118**
Storage Temperature $-20\text{ }^{\circ}\text{C}$

EC 3.4.21.39
CAS RN 97501-92-3
Synonyms: mast cell protease I; skeletal muscle protease; skin chymotryptic proteinase; mast cell serine proteinase; skeletal muscle (SK) protease¹

Product Description

Chymase is a cathepsin G-like, serine proteinase found primarily in mast cells.² It has a molecular mass of ~30 kDa and an apparent molecular mass of ~37 kDa on SDS-PAGE.

Chymase plays an important role in generating angiotensin II in response to injury of vascular tissues. Inhibition of chymase may be useful for preventing vascular proliferation in grafted vessels.³ Cardiac chymase has been shown to participate directly in the pathophysiologic state after myocardial infarction in hamsters.⁴

The product is supplied as a solution in 20 mM Tris-HCl, pH 7.6, with 0.8 M NaCl and 25% (w/v) glycerol.

Purity: $\geq 90\%$ (SDS-PAGE)

Specific Activity: ≥ 40 units/mg protein

Unit definition: One unit hydrolyzes one μmole of *N*-benzoyl-L-tyrosine ethyl ester (BTEE) per minute at pH 7.8 and $25\text{ }^{\circ}\text{C}$. The assay buffer used to determine enzymatic activity contains 27 mM Tris-HCl, pH 7.8, with 150 mM NaCl and 0.43 mM BTEE.

Precautions and Disclaimer

This product is for R&D use only, not for drug, household, or other uses. Please consult the Material Safety Data Sheet for information regarding hazards and safe handling practices.

Storage/Stability

The product ships on dry ice and storage at $-20\text{ }^{\circ}\text{C}$ is recommended.

References

1. IUBMB Enzyme Nomenclature
2. Schechter, N.M., *J. Immunol.*, **152**, 4062-69 (1994).
3. Miyazaki, M., and Takai, S.J., *Renin Angiotensin Aldosterone Syst.*, **1** 23-26 (2000).
4. Jin, D. et al., *Life Sci.*, **71**, 437-446 (2002).

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