

Cathepsin E Protein, Rat, Recombinant (His)

General Information

Synonyms:	cathepsin E
Protein Construction:	A DNA sequence encoding the rat Ctse (AAH62002.1) (Met1-Pro398) was expressed with a polyhistidine tag at the C-terminus. Predicted N terminal: Val 22
Species:	Rat
Expression Host:	HEK293 Cells
Accession:	AAH62002.1
Molecular Weight:	42.1 kDa (predicted)

QC Testing

Biological Activity:	Activity testing is in progress. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 90 % as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Supplied as sterile 12.5 mM MES, 75 mM NaCl, 50% glycerol, pH 6.5.

Preparation and Storage

Reconstitution:

A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

Stability & Storage:

It is recommended to store the product under sterile conditions at -20°C to -80°C. Samples are stable for up to 12 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

Proteins are shipped with blue ice.

Protein Background

Cathepsin E Protein (CTSE Protein) is a member of the peptidase C1 family that is a gastric aspartic protease that functions as a disulfide-linked homodimer. Cathepsin E Protein (CTSE Protein) is predominantly present in the cells of immune system and is frequently implicated in antigen processing via the MHC class II pathway which however does not appear to be involved in the digestion of dietary protein. The protein has a specificity similar to that of pepsin and pepsin. Cathepsin E Protein (CTSE Protein) is found in highest concentration in the surface of epithelial mucus-producing cells of the stomach and also been found in more than half of the gastric cancers. It appears, therefore, to be an oncofetal antigen.

Reference

- Zaidi N, et al. (2008) Emerging functional roles of cathepsin E. *Biochem Biophys Res Commun.* 377(2) : 327-30.
- Zaidi N, et al. (2008) Cathepsin E: a mini review. *Biochem Biophys Res Commun.* 367(3) : 517-22.
- Azuma T, et al. (1989) Human gastric cathepsin E Predicted sequence, localization to chromosome 1, and sequence homology with other aspartic proteinases. *The journal of biological chemistry.* 264: 16748-53.

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