

Cathepsin E Protein, Mouse, Recombinant (His)

General Information

Synonyms:	CatE;cathepsin E;A430072O03Rik;C920004C08Rik;CE
Protein Construction:	Ser60-Pro397
Species:	Mouse
Expression Host:	HEK293 Cells
Accession:	P70269
Molecular Weight:	37 kDa (Predicted); 42 kDa (Reducing conditions)

QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it.
Purity:	> 95% as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Lyophilized from a 0.2 μm filtered solution of PBS, pH 7.4.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100 μg/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

It is recommended to store recombinant proteins at -20°C to -80°C for future use. Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

Cathepsin E is encoded by the ctse gene, exists in the homodimer forms, belongs to the peptidase A1 family. Cathepsin E high expressed in the stomach, clara cells and alveolar macrophages of lung, brain microglia, spleen and activated B-lymphocytes. Cathepsin E may involve in the processing of antigenic peptides during MHC class II-mediated antigen presentation, play a role in activation-induced lymphocyte depletion in the thymus, and in neuronal degeneration and glial cell activation in the brain.

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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