Rat Cathepsin E / CTSE Protein (His Tag)

Catalog Number: **81240-R08H**

General Information

Gene Name Synonym:

CTSE

Protein Construction:

A DNA sequence encoding the rat Ctse (AAH62002.1) (Met1-Pro398) was expressed with a polyhistidine tag at the C-terminus.

Source: Rat

Expression Host: HEK293 Cells

QC Testing

Purity: > 90 % as determined by SDS-PAGE.

Endotoxin:

< 1.0 EU per μg protein as determined by the LAL method.

Stability:

Samples are stable for up to twelve months from date of receipt at -70 ℃

Predicted N terminal: Val 22

Molecular Mass:

The recombinant rat Ctse consists 388 amino acids and predicts a molecular mass of 42.1 kDa.

Formulation:

Lyophilized from sterile 12.5 mM MES, 75 mM NaCl, 50 % glycerol, pH 6.5.

Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Specific concentrations are included in the hardcopy of COA. Please contact us for any concerns or special requirements.

Usage Guide

Storage:

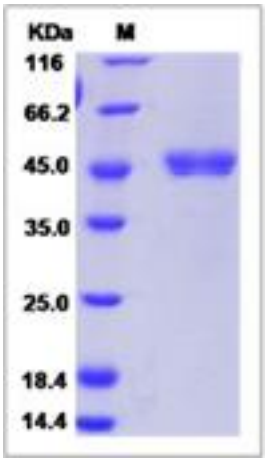
Store it under sterile conditions at -20℃ to -80℃ upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

Avoid repeated freeze-thaw cycles.

Reconstitution:

Detailed reconstitution instructions are sent along with the products.

SDS-PAGE:



Protein Description

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.

References

1.Zaidi N, *et al.* (2008) Emerging functional foles of cathepsin E. Biochem Biophys Res Commun. 377(2) : 327-30. 2.Zaidi N, *et al.* (2008) Cathepsin E: a mini review. Biochem Biophys Res Commun. 367(3) :517-22. 3.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.