

# Human Cathepsin E Protein, His Tag (active enzyme, MALS verified)

Catalog # CTE-H52H3



BIOSYSTEMS  
**Acro**  
Surprise Inside!

## Synonym

CTSE, Cathepsin E

## Source

Human Cathepsin E Protein, His Tag (active enzyme)(CTE-H52H3) is expressed from human 293 cells (HEK293). It contains AA Gln 18 - Pro 396 (Accession # [P14091-1](#)).

Predicted N-terminus: Gln 18

## Molecular Characterization

Cathepsin E(Gln 18 - Pro 396)  
P14091-1 Poly-his

This protein carries a polyhistidine tag at the C-terminus.

The protein has a calculated MW of 42.8 kDa. The protein migrates as 43-47 kDa when calibrated against [Star Ribbon Pre-stained Protein Marker](#) under reducing (R) condition (SDS-PAGE) due to glycosylation.

## Endotoxin

Less than 1.0 EU per  $\mu\text{g}$  by the LAL method.

## Purity

>95% as determined by SDS-PAGE.

## Formulation

Supplied as 0.2  $\mu\text{m}$  filtered solution in 25 mM MES, 150 mM NaCl, pH6.5 with glycerol as protectant.

Contact us for customized product form or formulation.

## Shipping

*This product is supplied and shipped with dry ice, please inquire the shipping cost.*

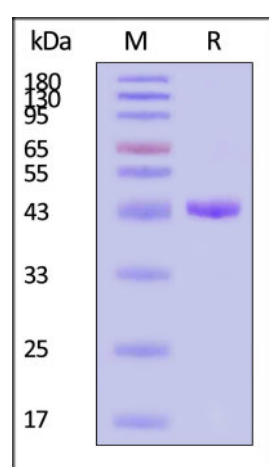
## Storage

*Please avoid repeated freeze-thaw cycles.*

This product is stable after storage at:

- The product MUST be stored at  $-70^{\circ}\text{C}$  or lower upon receipt;
- $-70^{\circ}\text{C}$  for 3 months under sterile conditions.

## SDS-PAGE

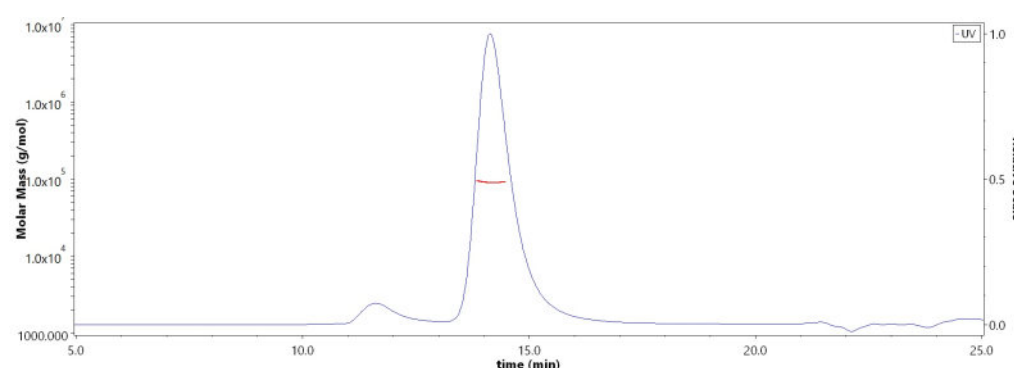


Human Cathepsin E Protein, His Tag (active enzyme) on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95% (With [Star Ribbon Pre-stained Protein Marker](#)).

## Bioactivity

Measured by its ability to cleave the fluorogenic peptide substrate, Mca-PLGL-Dpa-AR-NH<sub>2</sub>. The specific activity is >1,500 pmol/min/ $\mu\text{g}$  (QC tested).

## SEC-MALS



The purity of Human Cathepsin E Protein, His Tag (active enzyme) (Cat. No. CTE-H52H3) is more than 85% and the molecular weight of this protein is around 85-100 kDa verified by SEC-MALS.

[Report](#)

## Background

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This gene encodes a member of the A1 family of peptidases. Alternative splicing of this gene results in multiple transcript variants. At least one of these variants encodes a preproprotein that is proteolytically processed to generate the mature enzyme. This enzyme, an aspartic endopeptidase, may be involved in antigen processing and the maturation of secretory proteins. Elevated expression of this gene has been observed in neurodegeneration. [provided by RefSeq, Nov 2015]

### Clinical and Translational Updates

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