

Recombinant Human Cathepsin E Protein

Catalog No.: RP02167

Sequence Information

Species **Gene ID**
Human 1510

Swiss Prot **Tags**
P14091 C-His

Synonyms
CTSE, CATE

Product Information

Source **Purification**
HEK293 cells ≥ 95 % as
determined by
SDS-PAGE.

Calculated MW **Observed MW**
41.78 kDa 46 kDa

Endotoxin
< 1 EU/μg of the protein by LAL
method.

Formulation

Lyophilized from a 0.2 μm filtered
solution of 20mM MES, 150mM
NaCl, pH 5.5. Contact us for
customized product form or
formulation.

Reconstitution

Centrifuge the tube before
opening. Reconstitute to a
concentration of 0.1-0.5 mg/mL in
sterile distilled water. Avoid vortex
or vigorously pipetting the protein.
For long term storage, it is
recommended to add a carrier
protein or stabilizer (e.g. 0.1% BSA,
5% HSA, 10% FBS or 5%
Trehalose), and aliquot the
reconstituted protein solution to
minimize free-thaw cycles.

Background

Cathepsin E (CTSE) is a gastric aspartyl protease that functions as a disulfide-linked homodimer. It is a member of the Peptidase C1 family, and has a specificity similar to that of Pepsin A and Cathepsin D. CTSE is localized to the endoplasmic reticulum and Golgi apparatus, while the mature enzyme is localized to the endosome. It is expressed abundantly in the stomach, the Clara cells of the lung and activated B- lymphocytes, and at lower levels in lymph nodes, skin and spleen. CTSE is an intracellular proteinase that have a role in immune function, activation-induced lymphocyte depletion in the thymus, neuronal degeneration and glial cell activation in the brain. Furthermore, it probably involved in the processing of antigenic peptides during MHC class II-mediated antigen presentation.

Basic Information

Description

Recombinant Human Cathepsin E Protein is produced by Mammalian expression system. The target protein is expressed with sequence (Ser20-Pro396) of human CTSE (Accession #P14091) fused with a 6xHis tag at the C-terminus.

Activity

Shipping

Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

Storage

Store at -20°C

Operational Notes

For your safety and health, please wear a lab coat and disposable gloves for handling.

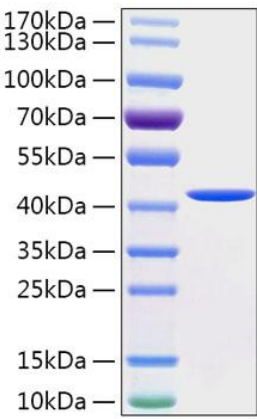
Contact

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Validation Data



Recombinant Human Cathepsin E Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.