

## 32-7365: Recombinant Human Cathepsin E/CTSE (C-6His)

**Gene :** CTSE  
**Gene ID :** 1510  
**Uniprot ID :** P14091

### Description

Source: Human Cells.  
MW :41.78kD.

Recombinant Human Cathepsin E is produced by our Mammalian expression system and the target gene encoding Ser20-Pro396 is expressed with a 6His tag at the C-terminus. 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.

### Product Info

**Amount :** 10 µg / 50 µg  
**Content :** Lyophilized from a 0.2 µm filtered solution of 20mM MES, 150mM NaCl, pH 5.5.  
**Storage condition :** Lyophilized protein should be stored at -20°C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7°C for 2-7 days. Aliquots of reconstituted samples are stable at -20°C for 3 months.  
**Amino Acid :** SLHRVPLRRHPSLKKLRARSQSEFWKSHNLDMIQFTESCSMDQSAKEPLINYLDMEYFGTISIGSPPQNFTVIFDTGSSNLWVPSVYCTSPACKTHSRFQPSQSSTYSQPGQSFYGTGSLGSIIGADQVSVEGLTVVGGQFQGESVTEPGQTFVDAEFDGILGLGYPSLAVGGVTPVFDNMMAQNLVDLPMFSVYMSSNPEGGAGSELIFGGYDHSFSGSLNWWVPVKQAYWQIALDNIQVGGTVMFCSEGCQAIVDTGTSITGSPDKIKLQNAIGAAPVDGEYAVECANLNVMPDVTFTINGVPYTLSPYATLLDFVDGMQFCSSGFQGLDIHPPAGPLWILGDVFIHQFYSVFDNRVGLAPAVPVDHHHHHH

### Application Note

Always centrifuge tubes before opening. Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than 100 µg/ml. Dissolve the lyophilized protein in ddH<sub>2</sub>O. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

**Endotoxin :** Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test.

**Biological Activity :** Specific Activity is greater than 350pmol/min/ug