



Recombinant Protein Technical Manual
Recombinant Human Cathepsin E/CTSE Protein (His
Tag)
RPES4653

Product Data:

Product SKU: RPES4653

Size: 10µg

Species: Human

Expression host: Human Cells

Uniprot: P14091

Protein Information:

Molecular Mass: 41.8 kDa

AP Molecular Mass: 46 kDa

Tag: C-6His

Bio-activity:

Purity: > 95 % as determined by reducing SDS-PAGE.

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

Storage: Lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.

Shipping: This product is provided as lyophilized powder which is shipped with ice packs.

Formulation: Lyophilized from a 0.2 µm filtered solution of 20mM MES, 150mM NaCl, pH 5.5.

Reconstitution: Please refer to the printed manual for detailed information.

Application:

Synonyms: Cathepsin E; CTSE

Immunogen Information:

Sequence: Ser20-Pro396

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. Futhermore, it probably involved in the processing of antigenic peptides during MHC class II-mediated antigen presentation.