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Datasheet for ABIN1096239

Cathepsin E Protein (CTSE) (AA 20-396) (His tag)

Overview

Quantity:	50 µg
Target:	Cathepsin E (CTSE)
Protein Characteristics:	AA 20-396
Origin:	Human
Source:	Human Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This Cathepsin E protein is labelled with His tag.

Product Details

Purpose:	Recombinant Human Cathepsin E/CTSE (C-6His)
Sequence:	SLHRVPLRRH PSLKKKLRR SQLSEFWKSH NLDMIQFTES CSMDQSAKEP LINYLDMEYF GTISIGSPPQ NFTVIFDTGS SNLWVPSVYC TSPACKTHSR FQPSQSSTYS QPGQSFSIQY GTGSLSGIIG ADQVSVEGLT VVGQQFGESV TEPGQTFVDA EFDGILGLGY PSLAVGGVTP VFDNMMAQNL VDLPMFSVYM SSNPEGGAGS ELIFGGYDHS HFSGSLNWVP VTKQAYWQIA LDNIQVGDTV MFCSEGCQAI VDTGTSLITG PSDKIKQLQN AIGAAPVDGE YAVECANLNV MPDVTFTING VPYTLSPAY TLLDFVDGMQ FCSSGFQGLD IHPPAGPLWI LGDVFIRQFY SVFDRGNRRV GLAPAVPVDH HHHHH
Characteristics:	Recombinant Human Cathepsin E/CTSE (C-6His) Specific Activity is greater than 350pmol/min/ug Measured by its ability to cleave the fluorogenic peptide substrate, Mca-PLGL-Dpa-AR-NH ₂
Purity:	> 95 % as determined by reducing SDS-PAGE.

Product Details

Sterility:	0.2 µm filtered
Endotoxin Level:	Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test

Target Details

Target:	Cathepsin E (CTSE)
Alternative Name:	Cathepsin E (CTSE Products)
Background:	<p>Recombinant Human Cathepsin E is produced with our mammalian expression system in human cells. The target protein is expressed with sequence (Ser20-Pro396) of Human CTSE fused with a polyhistidine tag at the C-terminus.</p> <p>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.</p>
Molecular Weight:	41.78 kDa
UniProt:	P14091

Application Details

Restrictions:	For Research Use only
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Handling

Format:	Lyophilized
Reconstitution:	<p>It is not recommended to reconstitute to a concentration less than 100 µg/mL.</p> <p>Dissolve the lyophilized protein in ddH₂O.</p> <p>Please aliquot the reconstituted solution to minimize freeze-thaw cycles.</p>
Buffer:	Lyophilized from a 0.2 µm filtered solution of 20 mM MES, 150 mM NaCl, pH 5.5.
Handling Advice:	Always centrifuge tubes before opening. Do not mix by vortex or pipetting.

Handling

Storage: 4 °C/-20 °C/-80 °C

Storage Comment: 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.