Datasheet for ABIN7597376

Cathepsin L Protein (AA 18-333) (His tag)

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Overview

Quantity:	10 µg
Target:	Cathepsin L (CTSL1)
Protein Characteristics:	AA 18-333
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This Cathepsin L protein is labelled with His tag.

Product Details

Purpose:	Recombinant human CTSL Protein with C-terminal 10xHis tag
Sequence:	CTSL(Thr18-Val333) 10xHis tag
Purity:	The purity of the protein is greater than 95 % as determined by SDS-PAGE and Coomassie blue staining.

Target Details

Target:	Cathepsin L (CTSL1)
Alternative Name:	CTSL (CTSL1 Products)
Background:	MEP, CATL, CTSL1 The protein encoded by this gene is a lysosomal cysteine proteinase that plays a major role in intracellular protein catabolism. Its substrates include collagen and elastin, as well as alpha-1 protease inhibitor, a major controlling element of neutrophil elastase activity. The encoded

Target Details

	protein has been implicated in several pathologic processes, including myofibril necrosis in myopathies and in myocardial ischemia, and in the renal tubular response to proteinuria. This protein, which is a member of the peptidase C1 family, is a dimer composed of disulfide-linked heavy and light chains, both produced from a single protein precursor. Additionally, this protein cleaves the S1 subunit of the SARS-CoV-2 spike protein, which is necessary for entry of the virus into the cell. [provided by RefSeq, Aug 2020]
Molecular Weight:	predicted molecular mass of 37.2 kDa after removal of the signal peptide. The apparent molecular mass of CTSL-His is 35-55 kDa due to glycosylation.
UniProt:	P07711
Pathways:	Activation of Innate immune Response, Toll-Like Receptors Cascades

Application Details

Application Notes:	Extracellular Domain Proteins (ECD) can be used as: • Immunogens for antibody drug development • Reagents used for CAR-T positive cell monitoring • Reagents for antibody screening and functional testing • Reagents for antibody affinity measurement
Comment:	The protein was made using HEK293 mammalian cell secretion expression system to ensure the close-to-native structures and post-translational modifications of the target protein.
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Buffer:	Lyophilized from sterile PBS, pH 7.4. Normally 5 % – 8% trehalose is added as protectants before lyophilization.
Storage:	-20 °C,-80 °C
Storage Comment:	Store at -20°C to -80°C for 12 months in lyophilized form. After reconstitution, if not intended for use within a month, aliquot and store at -80°C (Avoid repeated freezing and thawing). Lyophilized proteins are shipped at ambient temperature.
Expiry Date:	12 months