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Datasheet for ABIN1096233
Cathepsin B Protein (CTSB) (full length) (His tag)

Overview

Quantity:	50 µg
Target:	Cathepsin B (CTSB)
Protein Characteristics:	full length
Origin:	Human
Source:	Human Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This Cathepsin B protein is labelled with His tag.

Product Details

Purpose:	Recombinant Human Cathepsin B/CTSB (C-6His)
Sequence:	RSRPSFHPVS DELVNYVNKR NTTWQAGHNF YNVDMGYLKR LCGTFLGGPK PPQRVMFTED LKLPAFDAR EQWPQCPTIK EIRDQGSCGS CWAFGAVEAI SDRICHTNA HVSVEVSAED LLTCCGSMCG DGCNGGYPAE AWNFWTRKGL VSGGLYESHV GCRPYSIPPC EHHVNGSRPP CTGEGDTPKC SKICEPGYSP TYKQDKHYGY NSYSVSNSEK DIMAEIYKNG PVEGAFSVYS DFLLYKSGVY QHVTGEMMGG HAIRILGWGV ENGETPYWLVA NSWNTDWGDN GFFKILRGQD HCGIESEVVA GIPRTDQYWE KIVDHHHHHH
Characteristics:	Recombinant Human Cathepsin B is produced by our mammalian expression system in human cells. The target protein is expressed with full length sequence of Human Cathepsin B fused with a polyhistidine tag at the C-terminus.
Purity:	> 95 % as determined by reducing SDS-PAGE.
Sterility:	0.2 µm filtered

Product Details

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

Target Details

Target: Cathepsin B (CTSB)

Alternative Name: cathepsin-b ([CTSB Products](#))

Sub Type: Fusionprotein

Background: Cathepsin B is an enzymatic protein belonging to the peptidase (or protease) families. The protein encoded by this gene is a lysosomal cysteine protease composed of a dimer of disulfide-linked heavy and light chains, both produced from a single protein precursor. It is a member of the peptidase C1 family. At least five transcript variants encoding the same protein have been found for this gene. Cystatin-B / CSTB is an intracellular thiol proteinase inhibitor. Tightly binding reversible inhibitor of cathepsins L, H and B. Cystatin-B / CSTB is able to form a dimer stabilized by noncovalent forces, inhibiting papain and cathepsins L, H and B. Cystatin-B / CSTB is also thought to play a role in protecting against the proteases leaking from lysosomes

Alternative Names: Cathepsin B, APP Secretase, APPS, Cathepsin B1, CTSB, CPSB

Molecular Weight: 36.9 kDa

UniProt: [P07858](#)

Pathways: [Activation of Innate immune Response](#), [Toll-Like Receptors Cascades](#)

Application Details

Restrictions: For Research Use only

Handling

Format: Liquid

Reconstitution: It is not recommended to reconstitute to a concentration less than 100 μg/mL.
Dissolve the lyophilized protein in ddH₂O.
Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

Buffer: Supplied as a 0.2 μm filtered solution of 20 mM TrisHCl, 150 mM NaCl, pH 8.0.

Handling Advice: Always centrifuge tubes before opening. Do not mix by vortex or pipetting.

Storage: -80 °C

Storage Comment: Store at < -20°C, stable for 6 months after receipt.

Handling

Please minimize freeze-thaw cycles.

Expiry Date: 6 months