

Active Recombinant Human CTSZ Protein, His-tagged

Cat. No. CTSZ-658H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human CTSZ Protein is produced by Baculovirus expression system. This protein is fused with a His tag.
Species	Human
Source	Insect Cells
ProteinLength	24-303 aa
Description	Cathepsin Z, also known Cathepsin X and Cathepsin P, is a member of the C1 family of lysosomal cysteine proteases. It exhibits carboxy-monopeptidase and carboxy-dipeptidase activity. This protein regulates maturation of dendritic cells and plays important role in the initiation of adaptive immunity. It is also involved in tumor and immune cells as higher expression is found in tumour and immune cells of prostate and gastric carcinomas and in macrophages of gastric mucosa. Recombinant human Cathepsin Z protein, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.
Form	Liquid. In Phosphate Buffered Saline (pH 7.4) containing 10 % glycerol.
Bio-activity	Specific activity is > 1,400 pmol/min/ug in which one unit will convert 1.0 pmole of Mca-PLGL-Dpa-AR-NH2 to MCA- Pro-Leu-OH per minute at pH 3.5 at 25 centigrade.
Molecular Mass	32.5 kDa

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AA Sequence	<p>GLYFRRGQTC YRPLRGDGLA PLGRSTYPRP HEYLSPADLP KSWDWRNVDG VNYASITRNQ HIPQYCGSCW AHASTSAMAD RINIKRKGAW PSTLLSVQNV IDCGNAGSCE GGNDLSVWDY AHQHGIPDET CNNYQAKDQE CDKFNQCGTC NEFKECHAIR NYTLWRVGDY GSLSGREKMM AEIYANGPIS CGIMATERLA NYTGGIYAEY QDTTYINHVV SVAGWGISDG TEYWIVRNSW GEPWGERGWL RIVTSTYKDG KGARYNLAIE EHCTFGDPIV LEHHHHHH</p>
Endotoxin	< 1.0 EU per 1 ug of protein (determined by LAL method)
Purity	> 95 % by SDS - PAGE
Notes	For research use only. This product is not intended or approved for human, diagnostics or veterinary use.
Storage	Can be stored at +4 centigrade short term (1-2 weeks). For long term storage, aliquot and store at -20 or -70 centigrade. Avoid repeated freezing and thawing cycles.
Concentration	0.5 mg/ml (determined by Absorbance at 280 nm)

GENE INFORMATION

Gene Name	CTSZ cathepsin Z [Homo sapiens]
Official Symbol	CTSZ
Synonyms	CTSZ; cathepsin Z; carboxypeptidase LB; cathepsin B2; cathepsin IV; cathepsin X; cathepsin Y; cathepsin Z1; CTSX; cysteine type carboxypeptidase; lysosomal carboxypeptidase B; cathepsin P; preprocathepsin P; cysteine-type carboxypeptidase; FLJ17088;
Gene ID	1522

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mRNA Refseq	NM_001336
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Protein Refseq	NP_001327
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MIM	603169
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UniProt ID	Q9UBR2
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