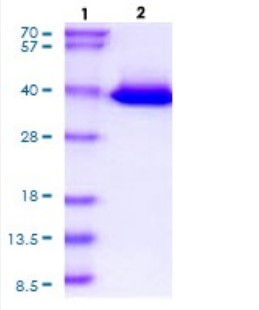
Bioactive

CTSZ (Human) Recombinant Protein

Catalog # P8055 Size 100 ug

Applications



Specification

Product Description	Human CTSZ (Q9UBR2, 24 a.a. - 303 a.a.) partial length recombinant protein with His tag expressed in Baculovirus expression system.
Sequence	GLYFRRGQTCYRPLRGDGLAPLGRSTYPRPHEYLSPADLPKSWDWRNVDGVNYASITRNQHIPQY CGSCWAHASTSAMADRINIKRKGAWPSTLLSVQNVIDCGNAGSCEGGNDLSVWDYAHQHGIPDE TCNNYQAKDQECDKFNQCGTCNEFKECHAIRNYTLWRVGDYGSLSGREKMMAEIYANGPISCGIM ATERLANYTGGIYAEYQDTTYINHVVSVAGWGISDGTEYWIVRNSWGEPWGERGWLRIVTSTYKDG KGARYNLAIEEHCTFGDPIV
Host	Viruses
Theoretical MW (kDa)	32.5
Form	Liquid
Preparation Method	Baculovirus expression system
Purity	> 95% by SDS-PAGE
Endotoxin Level	< 1 EU per 1 ug of protein (determined by LAL method)
Activity	Specific activity is > 1400 pmol/min/ug, in which one unit will convert 1.0 pmole of Mca-PLGL-Dpa-A R-NH2 to MCA- Pro-Leu-OH per minute at pH 3.5 at 25°C.

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Quality Control Testing	3 ug by SDS-PAGE under reducing condition and visualized by Coomassie blue stain.
Storage Buffer	In Phosphate-Buffer Saline pH 7.4 (10% glycerol)
Storage Instruction	Store at 2°C to 8°C for 1 week. For long term storage, aliquot and store at -20°C to -80°C. Aliquot to avoid repeated freezing and thawing.

Applications

- Functional Study
- SDS-PAGE

Gene Info — CTSZ

Entrez GeneID	1522
Protein Accession#	Q9UBR2
Gene Name	CTSZ
Gene Alias	CTSX, FLJ17088
Gene Description	cathepsin Z
Omim ID	603169
Gene Ontology	Hyperlink
Gene Summary	The protein encoded by this gene is a lysosomal cysteine proteinase and member of the peptidase C1 family. It exhibits both carboxy-monopeptidase and carboxy-dipeptidase activities. The encoded protein has also been known as cathepsin X and cathepsin P. This gene is expressed ubiquitously in cancer cell lines and primary tumors and, like other members of this family, may be involved in tumorigenesis. [provided by RefSeq
Other Designations	OTTHUMP00000031409|cathepsin X|preprocathepsin P

Pathway

- Lysosome

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Disease

- Alzheimer disease
- Cognition
- Genetic Predisposition to Disease
- Tuberculosis

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