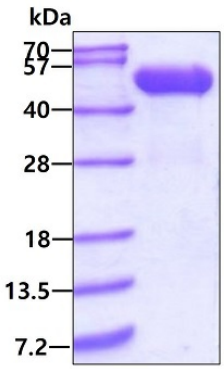
Bioactive HuPro®

CTSD (Human) Recombinant Protein

Catalog # P7913 Size 50 ug

Applications



SDS-PAGE analysis of CTSD (Human) Recombinant Protein.

Specification

Product Description	Human CTSD (P07339, 21 a.a. - 412 a.a.) partial recombinant protein with His tag expressed in Baculovirus.
Sequence	LVRIPLHKFTSIRRTMSEVGGSVEDLIAKGPVSKYSQAVPAVTEGPIPEVLKNYMDAQYYGEIGIGTP PQCFTVVFDTGSSNLWVPSIHCKLLDIACWIHHKYNSDKSSTYVKNGTSFDIHYGSGSLSGYLSQD TVSVPCQSASSASALGGVKVERQVFGEATKQPGITFIAAKFDGILGMAYPRISVNNVLPVFDNLMQ QKLVDQNIFSFYLSRDPDAQPGGELMLGGTDSKYYKGSLSYLNVTRKAYWQVHLDQVEVASGLT LCKEGCEAIVDTGTSLMVGPVDEVRELQKAIGAVPLIQGEYMIPCEKVSTLPAITLKLGGKGYKLSP EDYTLKVSQAGKTLCLSGFMGMDIPPPSGPLWILGDVFIGRYYTVFDRDNNRVGFAEAARL
Host	Human
Theoretical MW (kDa)	43.4
Form	Liquid
Preparation Method	Mammalian cell (HEK 293) expression system
Purity	> 95% as analyzed by SDS-PAGE.
Endotoxin Level	< 1 EU/ug of protein by the LAL method.

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Activity	The specific activity is > 20 pmol/min/ug, and is defined as the amount of enzyme that cleaves 1pmole of Mca-PLGL-Dpa-AR-NH2 per minute at pH 3.5 at 25°C.
Quality Control Testing	SDS-PAGE Stained with Coomassie Blue. SDS-PAGE analysis of CTSD (Human) Recombinant Protein.
Recommend Usage	Biological Activity SDS-PAGE The optimal working dilution should be determined by the end user.
Storage Buffer	In 50mM MES buffer, pH 5.5 (20% glycerol, 100mM NaCl)
Storage Instruction	Store at 4°C for 1 week. For long term storage store at -20°C to -80°C. Aliquot to avoid repeated freezing and thawing.

Applications

- Functional Study
- SDS-PAGE

Gene Info — CTSD

Entrez GeneID	1509
Protein Accession#	P07339
Gene Name	CTSD
Gene Alias	CLN10, CPSD, MGC2311
Gene Description	cathepsin D
Omim ID	116840 610127
Gene Ontology	Hyperlink
Gene Summary	This gene encodes a lysosomal aspartyl protease composed of a dimer of disulfide-linked heavy and light chains, both produced from a single protein precursor. This proteinase, which is a member of the peptidase C1 family, has a specificity similar to but narrower than that of pepsin A. Transcription of this gene is initiated from several sites, including one which is a start site for an estrogen-regulated transcript. Mutations in this gene are involved in the pathogenesis of several diseases, including breast cancer and possibly Alzheimer disease. [provided by RefSeq
Other Designations	lysosomal aspartyl peptidase|lysosomal aspartyl protease

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Pathway

- Lysosome

Disease

- Alzheimer disease
- Breast Neoplasms
- Cardiovascular Diseases
- Chronic Disease
- Cognition
- Cognition Disorders
- Creutzfeldt-Jakob Syndrome
- Dementia
- Depressive Disorder
- Diabetes Complications
- Diabetes Mellitus
- Edema
- Genetic Predisposition to Disease
- Memory
- Mental Processes
- Metabolic Syndrome X
- Neoplasms
- Neuropsychological Tests
- Osteoporosis
- Ovarian Neoplasms
- Parkinson disease

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- Periodontitis

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