

Bioactive

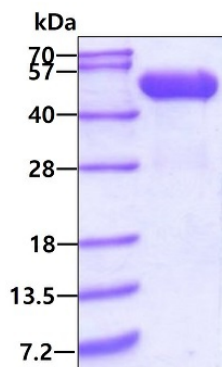
HuPro®

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
PQCFTVVFDTGSSNLWVPSIHCKLLDIACWIIHHKYNSDKSSTYVKNGTSFDIHYGSGSLSGYLSQD
TVSVPCQSASSASALGGVKVERQVFGEATKQPGITFIAAKFDGILGMAYPRISVNNVLPVFDNLMQ
QKLVDQNIFSFLSRDPDAQPGGELMLGGTDSKYYKGSLSYLNVTWKAYWQVHLDQVEVASGLT
LCKEGCEANDTGTSMLVGPVDEVRELQKAIGAVPLIQGEYMIPCEKVSTLPATLKLGGKGYKLSP
EDYTLKVSQAGKTLCLSGFMGMDIPPPSGPLWILGDVFIGRYYTVFDRDNNRVGFEEAARL

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.

Activity	The specific activity is > 20 pmol/min/ug, and is defined as the amount of enzyme that cleaves 1pmol e 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

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](#)

- [Periodontitis](#)