Recombinant Human CAPN7 protein, His & T7-tagged

Cat. No. CAPN7-1717H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human CAPN7 aa. (Met1~Pro157 (Accession # Q9Y6W3)) fused with N-terminal His & T7 tag was produced in E. coli cells.
Species	Human
Source	E.coli
ProteinLength	Met1~Pro157
Description	Calpains are ubiquitous, well-conserved family of calcium-dependent, cysteine proteases. The calpain proteins are heterodimers consisting of an invariant small subunit and variable large subunits. The large subunit possesses a cysteine protease domain, and both subunits possess calcium-binding domains. Calpains have been implicated in neurodegenerative processes, as their activation can be triggered by calcium influx and oxidative stress. The function of the protein encoded by this gene is not known. An orthologue has been found in mouse but it seems to diverge from other family members. The mouse orthologue is thought to be calcium independent with protease activity.
Form	Freeze-dried powder
Molecular Mass	25kDa as determined by SDS-PAGE reducing conditions.
Endotoxin	<1.0EU per 1ug (determined by the LAL method)

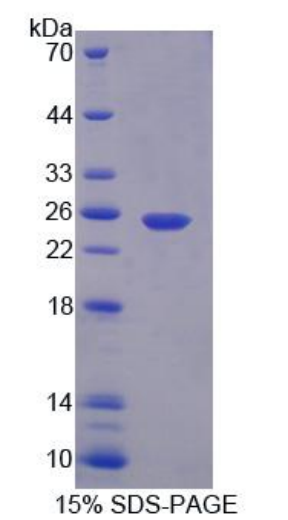
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Purity	>95%
Applications	SDS-PAGE; WB; ELISA; IP.
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months.
Storage buffer	Supplied as lyophilized form in 20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% sarcosyl, 5% trehalose, and preservative.
Reconstitution	Reconstitute in sterile ddH2O.
Isoelectric Point	4.8

GENE INFORMATION

Gene Name	CAPN7 calpain 7 [Homo sapiens (human)]
Official Symbol	CAPN7
Synonyms	CAPN7; calpain 7; PALBH; CALPAIN7; calpain-7; calpain like protease; homolog of Aspergillus Nidulans PALB; palB homolog
Gene ID	23473
mRNA Refseq	NM_014296.2

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Protein Refseq	NP_055111.1
UniProt ID	Q9Y6W3
SDS-PAGE	

15% SDS-PAGE

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