

Recombinant Human CAPN11 protein, His & T7-tagged

Cat. No. CAPN11-1718H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human CAPN11 aa. (Phe539~Gly739 (Accession # Q9UMQ6)) fused with N-terminal His & T7 tag was produced in E. coli cells.
Species	Human
Source	E.coli
ProteinLength	Phe539~Gly739
Description	Calpains constitute a family of intracellular calcium-dependent cysteine proteases. There are eight members in this superfamily. They consist of a variable 80 kDa subunit and an invariant 30 kDa subunit. This calpain protein appears to have protease activity and calcium-binding ability. A similar mouse protein may play a functional role in spermatogenesis and in the regulation of calcium-dependent signal transduction events during meiosis.
Form	Freeze-dried powder
Molecular Mass	24kDa as determined by SDS-PAGE reducing conditions.
Endotoxin	<1.0EU per 1ug (determined by the LAL method)
Purity	>90%
Applications	SDS-PAGE; WB; ELISA; IP.

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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 ddH ₂ O.
Isoelectric Point	5.3

GENE INFORMATION

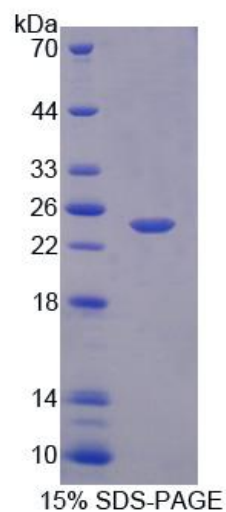
Gene Name	CAPN11 calpain 11 [Homo sapiens (human)]
Official Symbol	CAPN11
Synonyms	CAPN11; calpain 11; calpain11; calpain-11; CANP 11; calcium-activated neutral proteinase 11
Gene ID	11131
mRNA Refseq	NM_007058.3
Protein Refseq	NP_008989.2
UniProt ID	Q9UMQ6

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SDS-PAGE



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