

Recombinant Human CAPN6 protein, His-tagged

Cat. No. CAPN6-1425H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human CAPN6 aa. (Leu26~Arg495 fused with N-terminal His tag was produced in E. coli cells.
Species	Human
Source	E.coli
ProteinLength	Leu26~Arg495
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 protein encoded by this gene is highly expressed in the placenta. Its C-terminal region lacks any homology to the calmodulin-like domain of other calpains. The protein lacks critical active site residues and thus is suggested to be proteolytically inactive. The protein may play a role in tumor formation by inhibiting apoptosis and promoting angiogenesis.
Form	Freeze-dried powder
Molecular Mass	59kDa as determined by SDS-PAGE reducing conditions.
Endotoxin	<1.0EU per 1g (determined by the LAL method)

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Purity	>98%
Characteristic	The isoelectric point is 5.9.
Applications	Positive Control; Immunogen; SDS-PAGE; WB.
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.
Concentration	200µg/mL
Storage buffer	20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% sarcosyl, 5% Trehalose and Proclin300.
Reconstitution	Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0mg/mL. Do not vortex.

GENE INFORMATION

Gene Name	CAPN6 calpain 6 [Homo sapiens (human)]
Official Symbol	CAPN6
Synonyms	CAPN6; calpain 6; CANPX; CAPNX; CalpM; DJ914P14.1; calpain-6; calpain-like protease X-linked; calpamodulin

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Gene ID	827
mRNA Refseq	NM_014289.3
Protein Refseq	NP_055104.2
UniProt ID	Q9Y6Q1
SDS-PAGE	