

Recombinant Full Length Human CAPN6 Protein, GST-tagged

Cat. No. CAPN6-2823HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human CAPN6 full-length ORF (BAG35579.1, 1 a.a. - 641 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	641 amino acids
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. [provided by RefSeq, Nov 2009]
Molecular Mass	101 kDa
AA Sequence	MGPPLKLFKNQKYQELKQECIKDSRLFCDPFLPENSLFYNRLLPGKVWVKRPQDI CDDPHLIVGNISNHQLTQGR LGHKPMVSAFSC LAVQESHWT KTIPNHKEQEWDPQK

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TEKYAGIFHFRFWHFGWEVVIDDLLPTINGDLVFSFSTSMNEFWNALLEKAYAKLL
 GCYEALDGLTITDIIVDFTGTLAETVDMQKGRYTELVEEKYKLFGEYKTFTKGGLICC
 SIESPNQEEQEVETDWGLLKGHYTYMTDIRKIRLGERLVEVFSAEKVYMVRLRNPLG
 RQEWSGPWSEISEEWQQLTASDRKNLGLVMSDDGEFWMSLEDFCRNFHKLNVCR
 NVNNPIFGRKELESVLGCWTVDDDPLMNRSGGCYNNRDTFLQNPQYIFTVPEDGHK
 VIMSLQQKDLRTYRRMGRPDNYIIGFELFKVEMNRKFRLHHLIYQERAGTSTYIDTRT
 VFLSKYLKKGNVVLVPTMFQHGRTSEFLLRIFSEVPVQLRELTLDMPKMSCWNLAR
 GYLKVVQTITVHSAEDLEKKYANETVNPYLVKICGKEEVRSPVQKNTVHAIFDTQAIF
 YRRTTDIPIIVQVWNSRKFCQFLGQVTLADPSCDCRDLKSLYLRKKGGPTAKVKQG
 HISFKVISSDDLTEL

Applications

Enzyme-linked Immunoabsorbent Assay
 Western Blot (Recombinant protein)
 Antibody Production
 Protein Array

Storage

Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

Storage Buffer

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

GENE INFORMATION
Gene Name

CAPN6 calpain 6 [Homo sapiens]

Official Symbol

CAPN6

Synonyms

CALP M; Calpain-6; Calpain-like protease X-linked; Calpamodulin; CALPM;
 CAN6_HUMAN; CANP X; CANPX; CAPN 6; CAPN6

Gene ID

827

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mRNA Refseq	NM_014289
Protein Refseq	NP_055104
MIM	300146
UniProt ID	Q9Y6Q1

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