

Product datasheet for **TP300539**

Calpain 6 (CAPN6) (NM_014289) Human Recombinant Protein

Product data:

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|-----------------------|---|
| Product Type: | Recombinant Proteins |
| Description: | Recombinant protein of human calpain 6 (CAPN6), 20 µg |
| Species: | Human |
| Expression Host: | HEK293T |
| Expression cDNA | >RC200539 protein sequence |
| Clone or AA Sequence: | Red=Cloning site Green=Tags(s) |

MGPPLKLFKNQKYQELKQECIKDSRLFCPTFLPENSLFYNRLLPGKVVWKRPDICDDPHLIVGNISN
HQLTQGRGLGHKPMVSAFSLAVQESHWTKTIPNHKEQEWDPQKTEKYAGIFHFRFWHFGEWTEVIDLL
PTINGDLVFSFSTSMNEFWNALLEKAYAKLLGCYEALDGLTITDIIVDFGTLAETVDMQKGRYTELVEE
KYKLFGEYKFTFKGGLICCSIESPNQEEQEVETDWGLLKGHTYTMDIRKIRLGERLVEVFSAEKVYMV
RLRNPLGRQEWSGPWSEISEEWQQLTASDRKNLGLVMSDDGEFWMSLEDFCRNFHKLNVCRNVNPIFGR
KELESVLGCWTVDDDPLMNRSGGCYNNRDTFLQNPQYIFTVPEDGHKVMISLQKDLRTRYRRMGRPDNYI
IGFELFKVEMNRKFRLLHLYIQERAGTSTYIDTRTVFLSKYLKKNYVLVPTMFQHGRTSEFLLRIFSEV
PVQLRELTDMPKMSCWNLARGYPKVVQTIVHSAEDLEKKYANETVNPYLVKICGKEEVRSPVQKNTVH
AIFDTQAIFYRRTTDIPIIVQVWNSRKFCDQFLGQVTLADAPSDCRDLKSLYLRKKGGPTAKVKQGHISF
KVISSDDLTEL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

| | |
|----------------|--|
| Tag: | C-Myc/DDK |
| Predicted MW: | 74.4 kDa |
| Concentration: | >0.05 µg/µL as determined by microplate BCA method |
| Purity: | > 80% as determined by SDS-PAGE and Coomassie blue staining |
| Buffer: | 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol |
| Preparation: | Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps. |
| Note: | For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process. |
| Storage: | Store at -80°C. |



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Stability: Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.

RefSeq: [NP_055104](#)

Locus ID: 827

UniProt ID: [Q9Y6Q1](#)

RefSeq Size: 3604

Cytogenetics: Xq23

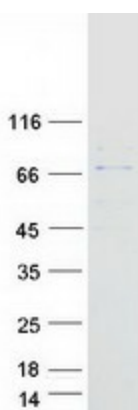
RefSeq ORF: 1923

Synonyms: CalpM; CANPX; CAPNX; DJ914P14.1

Summary: 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]

Protein Families: Druggable Genome, Protease

Product images:



Coomassie blue staining of purified CAPN6 protein (Cat# TP300539). The protein was produced from HEK293T cells transfected with CAPN6 cDNA clone (Cat# [RC200539]) using MegaTran 2.0 (Cat# [TT210002]).