

Recombinant Full Length Human CAPN9 Protein, C-Flag-tagged

Cat. No. CAPN9-1871HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human CAPN9 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
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 expressed predominantly in stomach and small intestine and may have specialized functions in the digestive tract. This gene is thought to be associated with gastric cancer. Multiple alternatively spliced transcript variants encoding different isoforms have been found for this gene.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	78.9 kDa
AA Sequence	MPYLYRAPGPQAHPVPKDARITHSSGQSFEQMRQECLQRGTLFEDADFPASNSSLF YSERPQIPFVWKRPG EIVKNPEFILGGATRTDICQGELGDCWLLAAIASLTNLNQKALA

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RVIPQDQRFPGGYAGIFHFQFWQHSE WLDVVIDDRLPTFRDRLVFLHSADHNEFW
 SALLEKAYAKLNGSYEALKGGSIAEMEDFTGGVAETFQTK EAPENFYEILEKALKR
 GSLLGCFIDTRSAAESEARTPFGLIKGHAYSVTGIDQVSFRGQRIELIRINPW GQVE
 WNGSWSDSSPEWRSVGPAEQKRLCHTALDDGEFWMAFQDFKAHFDKVEICNLTP
 DALEEDAIHKWE VTVHQGSWVRGSTAGGCRNFLDTFWTNPQIKLSLTEKDEGQEE
 CSFLVALMQKDRRKLKRFGANVLTIGY AIYECDPKDEHLNKDFFRYHASRARSKTFI
 NLREVSDRFKLPPGEYILIPSTFEPHQEADFCLRIFSEKK AITRDMDGNVDIDLPEPP
 KPTPPDQETEEEEQRFRALFEQVAGEDMEVTAAEELEYVLNAVLQKKKDIKFKK LSLIS
 CKNIISLMDTSGNGKLEFDEFKVFWDKQWINLFLRFDADKSGTMSTYELRTALKA
 AGFQLSSH LLQLIVLRYADEELQLDFDDFLNCLVRLENASRVFQALSTKNKEFIHLNI
 NEFIHLMNI TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Families	Druggable Genome, Protease
Full Length	Full L.

GENE INFORMATION

Gene Name CAPN9 calpain 9 [Homo sapiens (human)]

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Official Symbol	CAPN9
Synonyms	GC36; nCL-4
Gene ID	10753
mRNA Refseq	NM_006615.3
Protein Refseq	NP_006606.1
MIM	606401
UniProt ID	O14815



Coomassie blue staining of purified CAPN9 protein.