

Recombinant Full Length Human CAPN10 Protein, GST-tagged

Cat. No. CAPN10-1745HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human CAPN10(1 a.a. - 672 a.a.) fused with GST tag at N-terminal was expressed in Wheat Germ.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	672 amino acids
Description	Calpains represent a 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 catalytic subunit has four domains: domain I, the N-terminal regulatory domain that is processed upon calpain activation; domain II, the protease domain; domain III, a linker domain of unknown function; and domain IV, the calmodulin-like calcium-binding domain. This gene encodes a large subunit. It is an atypical calpain in that it lacks the calmodulin-like calcium-binding domain and instead has a divergent C-terminal domain. It is similar in organization to calpains 5 and 6. This gene is associated with type 2 or non-insulin-dependent diabetes mellitus (NIDDM), and is located within the NIDDM1 region. Multiple alternative transcript variants have been described for this gene.
Form	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Molecular Mass	101.3 kDa

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AA Sequence

MRAGRGATPARELFRDAAFPAAADSSLFCDLSTPLAQFREDITWRRPQEICATPRLFP
DDPREGQVKQGLLGDCWFLCACAALQKSRHLLDQVIPPGQPSWADQEYRGSFTCR
IWQFGRWVEVTTDDRPLCLAGRLCFSRCQREDVFWLPLEKVYAKVHGSYEHLWA
GQVADALVDLTGGLAERWNLKGVAGSGGQQDRPGRWEHRTCRQLLHLKDQCLIS
CCVLSPRAGARELGEFHAFIVSDLRELQGGAGQCILLRIQNPWGRRCWQGLWRE
GGEGWSQVDAAVASELLSQLQEGEFWVEEEFLREFDELTVGYPVTEAGHLQSLY
TERLLCHTRALPGAWVKGQSAGGCRNNSGFPSNPKFWLRVSEPSEVYIAVLQRSR
LHAADWAGRARALVGDSHTSWSPASIPGKHYQAVGLHLWKVEKRRVNLPRVLSMP
PVAGTACHAYDREVHLRCELSPGYYLAVPSTFLKDAPGEFLLRVFSTGRVSLSAIRA
VAKNTTPGAALPAGEWGTVQLRGSWRVGQTAGGSRNFASYPTNPCFPFSVPEGP
GPRCVRITLHQHCRPSDTEFHPIGFHIFQVPEGGRSQDAPLLLQEPLLSCVPHRYA
QEVSRCLLLPAGTYKVVPSTYLPDTEGAFTVTIATRDRPSIHSQEMLGQFLQEVSM
AVMKT

Applications

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

Notes

Best use within three months from the date of receipt of this protein.

Storage

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

GENE INFORMATION
Gene Name

CAPN10 calpain 10 [Homo sapiens]

Official Symbol

CAPN10

Synonyms

CAPN10; calpain 10; calpain-10; calpain-like protease CAPN10; calcium-activated
neutral proteinase 10; CANP10; NIDDM1

Gene ID

11132

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mRNA Refseq	NM_023083
Protein Refseq	NP_075571
MIM	605286
UniProt ID	Q9HC96

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