

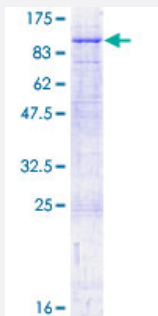
Full-Length

CAPN10 (Human) Recombinant Protein (P01)

Catalog # H00011132-P01

Size 25 ug, 10 ug

Applications



Specification

Product Description

Human CAPN10 full-length ORF (NP_075571.1, 1 a.a. - 672 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence

MRAGRGATPARELFRDAAFPADSSLFCDLSTPLAQFREDITWRRPQEICATPRLFPDDPREGQ
VKQGLLGDCWFLCACAALQKSRHLLDQVIPPQQPSWADQEYRGSFTCRWQFGRWVEVTTDDR
LPCLAGRLCFSRCQREDVFWLPLLEKVYAKVHGSYEHFWAGQVADALVDLTGGLAERWNLKGV
AGSGGQQDRPGRWEHRTCRQLLHLKDQCLISCCVLSPRAGARELGEFHAFIVSDLRELQQAG
QCILLRIQNPWGRRCWQGLWREGGEGWSQVDAAVASELLSQLQEGEFWVEEEFLREFDELT
VGYPVTEAGHLQSLYTERLLCHTRALPGAWVKGQSAGGCRNNSGFPSNPKFWLRVSEPSEVYIA
VLQRSRLHAADWAGRARALVGDSHTSWSPASIPGKHYQAVGLHLWKVEKRRVNLPRVLSMPPV
AGTACHAYDREVHLRCELSPGYLAVPSTFLKDAPGEFLLRVFSTGRVSLSAIRAVAKNTTPGAAL
PAGEWGTVQLRGSWRVGQTAGGSRNFASYPTNPCFPFSVPEGPGPRCVRITLHQHCRPSDTEF
HPIGFHIFQVPEGGRSQDAPLLLQEPLLSCVPHRYAQEVSRCLLPAGTYKVVPSTYLPDTEGAF
TVTIATRDRPSIHSQEMLGQFLQEVSVMAVMKT

Host

Wheat Germ (in vitro)

Theoretical MW (kDa)

101.3

Interspecies Antigen Sequence

Mouse (81); Rat (81)

Preparation Method

[in vitro wheat germ expression system](#)

Purification	Glutathione Sepharose 4 Fast Flow
Quality Control Testing	12.5% SDS-PAGE Stained with Coomassie Blue.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Best use within three months from the date of receipt of this protein.

Applications

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

Gene Info — CAPN10

Entrez GeneID	11132
GeneBank Accession#	NM_023083.2
Protein Accession#	NP_075571.1
Gene Name	CAPN10
Gene Alias	-
Gene Description	calpain 10
Omim ID	601283 605286
Gene Ontology	Hyperlink

Gene 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 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 located within the NIDDM1 region. Multiple alternative transcript variants encoding different isoforms have been described for this gene. [provided by RefSeq]

Other Designations

OTTHUMP00000164509|calcium-activated neutral protease

Disease

- [Adrenal hyperplasia](#)
- [Alzheimer disease](#)
- [Amenorrhea](#)
- [Arteriosclerosis](#)
- [Atherosclerosis](#)
- [Brain Ischemia](#)
- [Calcinosis](#)
- [Cardiovascular Diseases](#)
- [Colorectal Neoplasms](#)
- [Coronary Artery Disease](#)
- [Coronary Disease](#)
- [Cystic fibrosis](#)
- [Diabetes](#)
- [Diabetes Complications](#)
- [Diabetes Mellitus](#)
- [Diabetic Nephropathies](#)
- [Diabetic Neuropathies](#)

- [Diabetic Retinopathy](#)
- [Genetic Diseases](#)
- [Genetic Predisposition to Disease](#)
- [Glucose Intolerance](#)
- [Hirsutism](#)
- [Hyperandrogenism](#)
- [Hypercholesterolemia](#)
- [Hyperglycemia](#)
- [Hypertension](#)
- [Insulin Resistance](#)
- [Kidney Failure](#)
- [Laryngeal Neoplasms](#)
- [Macular Degeneration](#)
- [Metabolic Syndrome X](#)
- [Neoplasms](#)
- [Obesity](#)
- [Osteoporosis](#)
- [Pancreatic Neoplasms](#)
- [Polycystic Ovary Syndrome](#)
- [Prediabetic State](#)
- [Pre-Eclampsia](#)
- [Prostate cancer](#)
- [Prostatic Neoplasms](#)
- [Psychotic Disorders](#)
- [Schizophrenia](#)
- [Taste](#)