

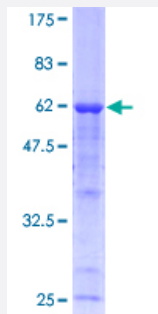
Full-Length

CAPN3 (Human) Recombinant Protein (P01)

Catalog # H00000825-P01

Size 25 ug, 10 ug

Applications



Specification

Product Description

Human CAPN3 full-length ORF (AAH03169, 1 a.a. - 309 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence

MHGNKQHLQKDFFLYNASKARSKTYINMREVSQRFRLPPSEYVMPSTYEPHQEGEFILRVFSEKR
NLSEEVENTISVDRPVKKKKTKPIIFVSDRANSNKELGVDQESEEGKGKTSPDKQKQSPQPQPG
SSDQESEEQQQFRNIFKQIAGDDMEICADELKKVLNTVVNKHKDLKTHGFTLESCRSMLMDTD
GSGKLNQLQEFHHLWNKIKAWQKIFKHYDTDQSGTINSYEMRNAVNDAGFHLNNQLYDITMRYADK
HMNIDFDSFICCFVRLEGMFRAFHAFDKDGDGIIKLVLEWLQLTMYA

Host

Wheat Germ (in vitro)

Theoretical MW (kDa)

59.62

Interspecies Antigen Sequence

Mouse (93)

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 — CAPN3

Entrez GeneID[825](#)**GeneBank Accession#**[BC003169.1](#)**Protein Accession#**[AAH03169](#)**Gene Name**

CAPN3

Gene Alias

CANP3, CANPL3, LGMD2, LGMD2A, MGC10767, MGC11121, MGC14344, MGC4403, nCL-1, p94

Gene Description

calpain 3, (p94)

Omim ID[114240](#) [253600](#)**Gene Ontology**[Hyperlink](#)**Gene Summary**

Calpain, a heterodimer consisting of a large and a small subunit, is a major intracellular protease, although its function has not been well established. This gene encodes a muscle-specific member of the calpain large subunit family that specifically binds to titin. Mutations in this gene are associated with limb-girdle muscular dystrophies type 2A. Alternate promoters and alternative splicing result in multiple transcript variants encoding different isoforms and some variants are ubiquitously expressed. [provided by RefSeq]

Other Designations

OTTHUMP00000161194|OTTHUMP00000161196|calpain 3|calpain p94, large [catalytic] subunit|calpain, large polypeptide L3|muscle-specific calcium-activated neutral protease 3 large subunit

Disease

- [Disease Progression](#)
- [Genetic Predisposition to Disease](#)
- [Muscular Dystrophies](#)