

Datasheet for ABIN7552959

Calpain 3 Protein (CAPN3) (AA 1-821) (His tag)



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Overview

Quantity:	1 mg
Target:	Calpain 3 (CAPN3)
Protein Characteristics:	AA 1-821
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This Calpain 3 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Purpose:	Custom-made recombinat CAPN3 Protein expressed in mammalian cells.
Sequence:	<p>MPTVISASVA PRATAEPRSP GPVPHPAQSK ATEAGGGNPS GIYSIIISRN FPIIGVKEKT</p> <p>FEQLHKKCLE KKVLYVDPEF PPDETSLFYS QKFPIQFVWK RPPEICENPR FIIDGANRTD</p> <p>ICQGELGDCW FLAAIACLTN NQHLLFRVIP HDQSFNIENYA GIFHFQFWRY GEWVDVVIDD</p> <p>CLPTYNNQLV FTKSNHRNEF WSALLEKAYA KLHGSEYALK GGNTTEAMED FTGGVAEFFE</p> <p>IRDAPSDMYK IMKKAIERGS LMGCSDDDGT NMTYGTSPSG LNMGELIARM VRNMDNSLLQ</p> <p>DSDLDPGRSD ERPTRTIIPV QYETRMACGL VRGHAYSVTG LDEVPFKGEK VKLVRLRNPW</p> <p>GQVEWNGSW SDRWKDWSFVD KDEKARLQHQ VTEDGEFWMS YEDFIYHFTK LEICNLTADA</p> <p>LQSDKLQWT VSVNEGRWVR GCSAGGCRNF PDTFTWNPQY RLKLLLEEDDD PDDSEVICSF</p> <p>LVALMQKNRR KDRKLGASLF TIGFAIYEV KEMHGNKQHL QKDFFLYNAS KARSKTYINM</p> <p>REVSQRFRLP PSEYVIVPST YEPHQEGEFI LRVFSEKRNL SEEVENTISV DRPVKKKKTK</p> <p>PIIFVSDRAN SNKELGVDQE SEEGKGKTSP DKQKQSPQPQ PGSSDQESEE QQQFRNIFKQ</p>

IAGDDMEICA DELKKVLNTV VNKHKDLKTH GFTLESCRSMLALMDTDGSG KLNQLQEFHHL
WNKIKAWQKI FKHYDTDQSG TINSYEMRNA VNDAGFHLNN QLYDIITMRY ADKHMNIDFD
SFICCFVRLE GMFRAFHAFA KDGDGIIKLN VLEWLQLTMY A **Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.**

Characteristics:	<p>Key Benefits:</p> <ul style="list-style-type: none">• Made to order protein - from design to production - by highly experienced protein experts.• Protein expressed in mammalian cells and purified in one-step affinity chromatography• The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.• State-of-the-art algorithm used for plasmid design (Gene synthesis). <p>This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein.</p> <p>If you are not interested in a full length protein, please contact us for individual protein fragments.</p> <p>The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.</p>
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Purity:	> 90 % as determined by Bis-Tris Page, Western Blot
Grade:	custom-made

Target Details

Target:	Calpain 3 (CAPN3)
Alternative Name:	CAPN3 (CAPN3 Products)
Background:	<p>Calpain-3 (EC 3.4.22.54) (Calcium-activated neutral proteinase 3) (CANP 3) (Calpain L3) (Calpain p94) (Muscle-specific calcium-activated neutral protease 3) (New calpain 1) (nCL-1),FUNCTION: Calcium-regulated non-lysosomal thiol-protease. Proteolytically cleaves CTBP1 at 'His-409'. Mediates, with UTP25, the proteasome-independent degradation of p53/TP53 (PubMed:23357851, PubMed:27657329). {ECO:0000269 PubMed:23357851, ECO:0000269 PubMed:23707407, ECO:0000269 PubMed:27657329}.</p>
Molecular Weight:	94.3 kDa

Target Details

UniProt: [P20807](#)

Pathways: [Regulation of Muscle Cell Differentiation, Skeletal Muscle Fiber Development](#)

Application Details

Application Notes: In addition to the applications listed above we expect the protein to work for functional studies as well. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: The buffer composition is at the discretion of the manufacturer.

Handling Advice: Avoid repeated freeze-thaw cycles.

Storage: -80 °C

Storage Comment: Store at -80°C.

Expiry Date: 12 months