

## Datasheet for ABIN3123351

# Calpain 3 Protein (CAPN3) (AA 1-821) (Strep Tag)



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Quantity:	250 μg
Target:	Calpain 3 (CAPN3)
Protein Characteristics:	AA 1-821
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This Calpain 3 protein is labelled with Strep Tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA

Brand:	AliCE®
Sequence:	MPTVISPTVA PRTGAEPRSP GPVPHPAQGK TTEAGGGHPS GIYSAIISRN FPIIGVKEKT
•	FEQLRRKCLE KKVLYLDPEF PPDETSLFYS QKFPIQFVWK RPPEICENPR FIIGGANRTD
	ICQGDLGDCW FLAAIACLTL NERLLFRVIP HDQSFTENYA GIFHFQFWRY GDWVDVVIDD
	CLPTYNNQLV FTKSNHRNEF WSALLEKAYA KLHGSYEALK GGNTTEAMED FTGGVTEFFE
	IKDAPSDMYK IMRKAIERGS LMGCSIDDGT NMTYGTSPSG LNMGELIARM VRNMDNSLLR
	DSDLDPRGSD DRPSRTIVPV QYETRMACGL VKGHAYSVTG LEEALFKGEK VKLVRLRNPW
	GQVEWNGSWS DGWKDWSFVD KDEKARLQHQ VTEDGEFWMS YDDFVYHFTK LEICNLTADA
	LESDKLQTWT VSVNEGRWVR GCSAGGCRNF PDTFWTNPQY RLKLLEEDDD PEDSEVICSF
	LVALMQKNRR KDRKLGANLF TIGFAIYEVP KEMHGNKQHL QKDFFLYNAS KARSKTYINM
	REVSQRFRLP PSEYVIVPST YEPHQEGEFI LRVFSEKRNL SEEAENTISV DRPVKKKKNK
	PIIFVSDRAN SNKELGVDQE AEEGKDKAGP EKRGETPQPR PGHTDQESEE QQQFRNIFRQ

IAGDDMEICA DELKNVLNTV VNKHKDLKTQ GFTLESCRSM IALMDTDGSG RLNLQEFHHL WKKIKAWQKI FKHYDTDHSG TINSYEMRNA VNDAGFHLNS QLYDIITMRY ADKHMNIDFD SFICCFVRLE GMFRAFNAFD KDGDGIIKLN VLEWLOLTMY A

Sequence without tag. The proposed Strep-Tag is based on experience s 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:

#### Key Benefits:

- Made in Germany from design to production by highly experienced protein experts.
- Protein expressed with ALiCE® and purified in one-step affinity chromatography
- These proteins are normally active (enzymatically functional) as our customers have reported (not tested by us and not guaranteed).
- State-of-the-art algorithm used for plasmid design (Gene synthesis).

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.

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.

#### Expression System:

- ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from Nicotiana tabacum c.v.. This contains all the protein expression machinery needed to produce even the most difficult-to-express proteins, including those that require posttranslational modifications.
- During lysate production, the cell wall and other cellular components that are not required for
  protein production are removed, leaving only the protein production machinery and the
  mitochondria to drive the reaction. During our lysate completion steps, the additional
  components needed for protein production (amino acids, cofactors, etc.) are added to
  produce something that functions like a cell, but without the constraints of a living system all that's needed is the DNA that codes for the desired protein!

#### Concentration:

- The concentration of our recombinant proteins is measured using the absorbance at 280nm.
- The protein's absorbance will be measured against its specific reference buffer.
- We use the Expasy's ProtParam tool to determine the absorption coefficient of each protein.

#### Purification:

One-step Strep-tag purification of proteins expressed in Almost Living Cell-Free Expression

### **Product Details**

	System (AliCE®).
Purity:	> 70-80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC).
Grade:	custom-made
Target Details	
Target:	Calpain 3 (CAPN3)
Alternative Name:	Capn3 (CAPN3 Products)
Background:	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),FUNCTION: Calcium-regulated non-lysosomal thiol-protease. Proteolytically cleaves CTBP1 at 'His-410'. Mediates, with UTP25, the proteasome-independent degradation of p53/TP53. {ECO:0000250 UniProtKB:P20807}.
Molecular Weight:	94.2 kDa
UniProt:	Q64691
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.
Comment:	ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from Nicotiana tabacum c.v This contains all the protein expression machinery needed to produce even the most difficult-to-express proteins, including those that require post-translational modifications.  During lysate production, the cell wall and other cellular components that are not required for protein production are removed, leaving only the protein production machinery and the mitochondria to drive the reaction. During our lysate completion steps, the additional components needed for protein production (amino acids, cofactors, etc.) are added to produc something that functions like a cell, but without the constraints of a living system - all that's needed is the DNA that codes for the desired protein!
Restrictions:	For Research Use only
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# Handling

Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer.  Standard Storage Buffer: PBS pH 7.4, 10 % Glycerol <b>Might differ depending on protein.</b>
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months