

Datasheet for ABIN7562139

Triadin Protein (TRDN) (AA 1-693) (His tag)



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Overview

Quantity:	1 mg
Target:	Triadin (TRDN)
Protein Characteristics:	AA 1-693
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This Triadin protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant Trdn Protein expressed in mammalian cells.
Sequence:	<p>MTEITAEGNA STTTTVIDNK NGCIPKSPGK VLKRSVTEDI VTFSSPAAW LLVIALITW</p> <p>SAVAIVMFDL VDYKNFSASS IAKIGSDPLK LVNDAVEETT DWIYGFFSLL SDIISSEGDE</p> <p>DDEDADEDID KGEIEEPPLK RKEIHQEKAE KEEKPEKKIQ TKASHREREK GKEKLKGEKP</p> <p>EKTATHKEKL EKKERPETKM MAKEDKKIKT KEKTEEKAKK EMKVGKQEKV KPTAAKAKET</p> <p>PKTPPKARKK DDKEMPAVHE QKDQYAFCRY MIDMFVHGD LKPGQSPVMPP PSLTPSKPAL</p> <p>STTALEEKEK EEEKKMEKKD TSDTKKKEKE VKKKSEETTI DGKGKEPGKP PETKQMTAKL</p> <p>TTQAAARKDE KKEESKKMRK PTEEQPKGKK QEKKEKHIEP AKTPKKEHPG PSEKLKKAKA</p> <p>EQAKEEIAAA STKKALHGKK EEKAKTVEQE VKKEKSGKSS SDLKDKEVKK EKSGKSSSDL</p> <p>KDKEPQLKNE ESKPQVKKE AKLASSDKGQ TRKQNITRPE QVIPHVKPEK AEHQEKGHPS</p> <p>IKKDKPKPSS KGAPEVPDSG KKKIEKSEKE SKVPTREENL QVYNVTKAEK PGKIPKDSKE</p> <p>APASKKDKED SKEAPTSKSD KEDSKDVPHS KKDKEVTDDV SSPKKQTRPI SFFQCQVYLN</p> <p>YNGYGFQFPV TPVQQPGENP GKTNSPGQKQ QEQ Sequence without tag. The proposed</p>

Product Details

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.

Specificity: If you are looking for a specific domain and are interested in a partial protein or a different isoform, please contact us regarding an individual offer.

Characteristics: Key Benefits:

- 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).

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.

If you are not interested in a full length protein, please contact us for individual protein fragments.

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.

Purity: > 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, Western Blot and analytical SEC (HPLC)

Grade: custom-made

Target Details

Target: Triadin (TRDN)

Alternative Name: Trdn ([TRDN Products](#))

Background: Triadin,FUNCTION: Contributes to the regulation of luminal Ca²⁺ release via the sarcoplasmic reticulum calcium release channels RYR1 and RYR2, a key step in triggering skeletal and heart muscle contraction. Required for normal organization of the triad junction, where T-tubules and the sarcoplasmic reticulum terminal cisternae are in close contact. Required for normal skeletal muscle strength (PubMed:19843516). Plays a role in excitation-contraction coupling in the heart and in regulating the rate of heart beats. {ECO:0000269|PubMed:19383796, ECO:0000269|PubMed:19843516, ECO:0000269|PubMed:22768324}.

Target Details

Molecular Weight:	77.8 kDa
UniProt:	E9Q9K5
Pathways:	Negative Regulation of Transporter Activity

Application Details

Application Notes:	We expect the protein to work for functional studies. 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