

Datasheet for ABIN3096259

UNC13B Protein (AA 1-1591) (His tag)[Go to Product page](#)**1** Image

Overview

Quantity:	1 mg
Target:	UNC13B
Protein Characteristics:	AA 1-1591
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This UNC13B protein is labelled with His tag.
Application:	ELISA, Western Blotting (WB), Crystallization (Crys), SDS-PAGE (SDS)

Product Details

Sequence:	MSLLCVRVKR AKFQGSPDKF NTYVTLKVQN VKSTTVAVRG DQPSWEQDFM FEISRLDLGL SVEVWNKGLI WDTMVGTVWI ALKTIRQSDE EGPGEWSTLE AETLMKDDEI CGTRNPTPHK ILLDTRFELP FDIPEEEARY WTYKWEQINA LGADNEYSSQ EESQRKPLPT AAAQCSFEDP DSAVDDRDSD YRSETSNSFP PPYHTASQPN ASVHQFPVPV RSPQQLLLQG SSRDSCNDSM QSYDLDYPER RAISPTSSSR YGSSCNVSQG SSQELSELDQY HEQDDDHRET DSIHSCHSSH SLSRDGQAGF GEQEKPLEVT GQAEKEAACE PKEMKEDATT HPPPDVLVQK DHFLGPQESF PEENASSPFT QARAHWIRAV TKVRLQLQEI PDDGDPSLPQ WLPEGPAGGL YGIDSMPDLR RKKPLPLVSD LSLVQSRKAG ITSAMATRTS LKDEELKSHV YKKTLLQALIY PISCTTPHNF EVWTATTPTY CYECEGLLWG IARQGMRCSE CGVKCHEKCQ DLLNADCLQR AAEKSKHGA EDRTQNIIMA MKDRMKIRER NKPEIFEVIR DVFTVNKAAH VQQMKTVMKQS VLDGTSKWSA KITITVCAQ GLQAKDKTGS SDPYVTQVS KTKKRTKTIF GNLNPVWEEK FHFECHNSSD RIKVRVWDED DDIKSRVKQR LKRESDDFLG QTIIIEVRTLS GEMDVWYNLE KRTDKSAVSG
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AIRLQISVEI KGEEKVAPYH VQYTCLHENL FHYLTDIQGS GGVRIPEAR G DDAWKVYFDE
TAQEIVDEFA MRYGIESIQ AMTHFACLSS KYMCPGVPAV MSTLLANINA YYAHTTASTN
VSASDRFAAS NFGKERFVKL LDQLHNSLRI DLSTYRNNFP AGSPERLQDL KSTVDLLTSI
TFFRMKVQEL QSPPRASQVW KDCVKACLNS TYEYIFNNCH DLYSRQYQLK QELPPEEQGP
SIRNLDFWPK LITLIVSIE EDKNSYTPVL NQFPQELNVG KVS AEVMWHL FAQDMKYALE
EHEKDHCKS ADYMNLFHKV KWLHNEYVRD LPVLQGGVPE YPAWFEQFVL QWLDENEDVS
LEFLRGALER DKKDGFQQT EHALFSCSVV DVFTQLNQSF EIIRKLECPD PSILAHYMRR
FAKTIGKVL M QYADILSKDF PAYCTKEKLP CILMNNVQQL RVQLEKMFEA MGGKELDLEA
ADSLKELQVK LNTVLDELSM VFGNSFQVRI DECVRQMADI LGQVRGTGNA SPDARASAAQ
DADSVLRPLM DFLDGNLTLF ATVCEKTVLK RVLKELWRV MNTMERMIVL PPLTDQGTGTQ
LIFTAAKELS HSLKLDHVM REETRNLTPK QCAVLDLALD TIKQYFHAGG NGLKKTFLK
SPDLQSLRYA LSLYTQTTDT LIKTFVRSQT TQSGVDDPV GEVSIQVDLF THPGTGEHKV
TVKVVAANDL KWQTAGMFRP FVEVTMVGPH QSDKKRKFTT KSKSNNWAPK YNETFHLLG
NEEGPESYEL QICVKDYCFA REDRVLGLAV MPLRDVTAKG SCACWCPLGR KIHMDETGLT
ILRILSQRSN DEVAREFVKL KSESRSTEEG S

Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a special request, please contact us.

Characteristics:

- Made in Germany - from design to production - by highly experienced protein experts.
- Human UNC13B Protein (raised in Insect Cells) purified by multi-step, protein-specific process to ensure crystallization grade.
- 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 will ensure that you receive a correctly folded 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.

In the unlikely event that the protein cannot be expressed or purified we do not charge anything (other companies might charge you for any performed steps in the expression process for custom-made proteins, e.g. fees might apply for the expression plasmid, the first expression experiments or purification optimization).

When you order this made-to-order protein you will only pay upon receipt of the correctly folded protein. With no financial risk on your end you can rest assured that our experienced protein experts will do everything to make sure that you receive the protein you ordered.

The concentration of our recombinant proteins is measured using the absorbance at 280nm.

The protein's absorbance will be measured in several dilutions and is measured against its

Product Details

specific reference buffer.

The concentration of the protein is calculated using its specific absorption coefficient. We use the Expasy's protparam tool to determine the absorption coefficient of each protein.

Purification:	Two step purification of proteins expressed in baculovirus infected SF9 insect cells: 1. In a first purification step, the protein is purified from the cleared cell lysate using three different His-tag capture materials: high yield, EDTA resistant, or DTT resistant. Eluate fractions are analyzed by SDS-PAGE. 2. Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatography. Eluate fractions are analyzed by SDS-PAGE and Western blot.
Purity:	>95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.
Sterility:	0.22 µm filtered
Endotoxin Level:	Protein is endotoxin free.
Grade:	Crystallography grade

Target Details

Target:	UNC13B
Alternative Name:	UNC13B (UNC13B Products)
Background:	Plays a role in vesicle maturation during exocytosis as a target of the diacylglycerol second messenger pathway. Is involved in neurotransmitter release by acting in synaptic vesicle priming prior to vesicle fusion and participates in the activity-dependent refilling of readily releasable vesicle pool (RRP). Essential for synaptic vesicle maturation in a subset of excitatory/glutamatergic but not inhibitory/GABA-mediated synapses (By similarity). {ECO:0000250}.
Molecular Weight:	181.6 kDa Including tag.
UniProt:	O14795
Pathways:	Skeletal Muscle Fiber Development , Synaptic Vesicle Exocytosis

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.
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Application Details

Comment: In cases in which it is highly likely that the recombinant protein with the default tag will be insoluble our protein lab may suggest a higher molecular weight tag (e.g. GST-tag) instead to increase solubility. We will discuss all possible options with you in detail to assure that you receive your protein of interest.

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: 100 mM NaCl, 20 mM Hepes, 10% glycerol. pH value 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: Unlimited (if stored properly)

Images



Image 1. „Crystallography Grade“ protein due to multi-step, protein-specific purification process