

Datasheet for ABIN3096260

UNC13D Protein (AA 1-1090) (Strep Tag)



[Go to Product page](#)

Overview

Quantity:	250 µg
Target:	UNC13D
Protein Characteristics:	AA 1-1090
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This UNC13D protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Brand:	AliCE®
Sequence:	<p>MATLLSHPQQ RPPFLRQAIK IRRRRVRDLQ DPPPQMAPEI QPPSHHFSPE QRALLYEDAL</p> <p>YTVLHRLGHP EPNHVTEASE LLRYLQEAFFH VEPEEHQQTL QRVRELEKPI FCLKATVKQA</p> <p>KGILGKDVSG FSDPYCLLGI EQGVGVPGGS PGSRHRQKAV VRHTIPEEET HRTQVITQTL</p> <p>NPVWDETFFL EFEDITNASF HLDMWDLDTV ESVRQKLGEL TDLHGLRRIF KEARKDKGQD</p> <p>DFLGNNVLRLL QDLRCREDQW YPLEPRTETY PDRGQCHLQF QLIHKRRATS ASRSQPSYTV</p> <p>HLHLLQQLVS HEVTQHEAGS TSWDGSLSQP AATVLFLLHAT QKDLSDFFHQ MAQWLAYSRL</p> <p>YQSLEFPSSC LLHPITSIEY QWIQGRLKAE QQEELAASFS SLLTYGLSLI RFRSVFPLS</p> <p>VSDSPARLQS LLRVLVQMCK MKAFGELCPN TAPLPQLVTE ALQTGTTEWF HLLKQHHQPM</p> <p>VQGIPEAGKA LLGLVQDVIG DLHQCQRTWD KIFHNTLKIHLFSMAFRELQ WLVAKRVDH</p> <p>TTVVGDDVSP EMGESLFQLY ISLKELCQLR MSSSERDGVLDLNFHRWFQ PAIPSWLQKT</p> <p>YNEALARVQR AVQMDELVPL GELTKHSTSA VDLSTCFQAI SHTARQLDWP DPPEAFMITV</p>

KFVEDTCRLA LVYCSLIKAR ARELSSGQKD QGQAANMLCV VVNDMEQLRL VIGKLPAQLA
WEALEQRVGA VLEQQQLQNT LHAQLQSALA GLGHEIRTVG RTLAEQLEVG IAKHIQKLVG
VRESVLPEDA ILPLMKFLEV ELCYMNTNLV QENFSSLLTL LWTHTLTVLV EAAASQRSSS
LASNRLKIAL QNLEICFHAЕ GCGLPKALH TATFQALQRD LELQAASSRE LIRKYFCSRI
QQQAETTSEE LGAVTVKASY RASEQKLRVE LLSASSLLPL DSNQSSDPFV QLTLEPRHEF
PELAARETQK HKKDLHPLFD ETFEFLVPAE PCRKAGACLL LTVLDYDTLG ADDLEGEAFL
PLREVPGLSG SEEPGEVPQT RLPLTYPAPN GDPILQLLEG RKGDRQAQVF VRLRRHRAKQ
ASQHALRPAP

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 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 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:

Product Details

- 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 System (ALiCE®).

Purity: > 70-80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC).

Grade: custom-made

Target Details

Target: UNC13D

Alternative Name: UNC13D ([UNC13D Products](#))

Background: Protein unc-13 homolog D (Munc13-4),FUNCTION: Plays a role in cytotoxic granule exocytosis in lymphocytes. Required for both granule maturation and granule docking and priming at the immunologic synapse. Regulates assembly of recycling and late endosomal structures, leading to the formation of an endosomal exocytic compartment that fuses with perforin-containing granules at the immunologic synapse and licences them for exocytosis. Regulates Ca(2+)-dependent secretory lysosome exocytosis in mast cells. {ECO:0000269|PubMed:15548590, ECO:0000269|PubMed:17237785}.

Molecular Weight: 123.3 kDa

UniProt: [Q70J99](#)

Pathways: [Regulation of Leukocyte Mediated Immunity, Positive Regulation of Immune Effector Process](#)

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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Restrictions: For Research Use only

Handling

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