

Datasheet for ABIN7555967  
**UNC13D Protein (AA 1-1090) (His tag)**



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## Overview

Quantity:	1 mg
Target:	UNC13D
Protein Characteristics:	AA 1-1090
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This UNC13D protein is labelled with His tag.

## Product Details

Purpose:	Custom-made recombinant UNC13D Protein expressed in mammalian cells.
Sequence:	MATLLSHPQQ RPPFLRQAIK IRRRRVRDLQ DPPPQMAPEI QPPSHHFSPE QRALLYEDAL YTVLHRLGHP EPNHVTEASE LLRYLQEA FH VEPEEHQQT L QRVRELEKPI FCLKATVKQA KGILGKDVSG FSDPYCLLGI EQGVGVP GGS PGSRHRQKAV VRHTIPEEET HRTQVITQTL NPVWDEFIL EFEDITNASF HLDMWDLDTV ESVRQKLGEL TDLHGLRRIF KEARKDKGQD DFLGNVVLRL QDLRCREDQW YPLEPRTETY PDRGQCHLQF QLIHKRRATS ASRSQPSYTV HLHLLQQLVS HEVTQHEAGS TSWDGLSPQ AATVFLHAT QKDLSDFHQS MAQWLAYSRL YQSLEFPSSC LLHPITSIEY QWIQGRLKAE QQEELAASF SLLTYGLSLI RFRSVFPLS VSDPARLQS LLRVLVQMCK MKAFGELCPN TAPLPQLVTE ALQTGTTEWF HLKQQHQP VQGIPEAGKA LLGLVQDVIG DLHQCQRTWD KIFHNTLKI H LFSMAFRELQ WLVAKRVQDH TTVVGDVVSP EMGESLFQLY ISLKELCQLR MSSSERDGLV ALDNFHRWFQ PAIPSWLQKT YNEALARVQR AVQMDELVPL GELTKHSTSA VDLSTCFAQI SHTARQLDWP DPEEAFMITV KFVEDTCRLA LVYCSLIKAR ARELSSGQKD QGQAANMLCV VVNDMEQLRL VIGKLPQA

## Product Details

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WEALEQRVGA VLEQQQLQNT LHAQLQSALA GLGHEIRTGV RTLAEQLEVG IAKHIQKLVG  
VRESVLPEDA ILPLMKFLEV ELCYMNTNLV QENFSSLLTL LWTHTLTVLV EAAASQRSSS  
LASNRLKIAL QNLEICFHAЕ GСGLPPKALH TATFQALQRD LELQAASSRE LIRKYFCSRI  
QQQAETTSEE LGAVTVKASY RASEQKLRVE LLSASSLLPL DSNГSSDPFV QLTLEPRHEF  
PELAARETQK HKKDLHPLFD EТFEFLVPAE PCRKAGACLL LTVLDYDTLG ADDLEGEAFL  
PLREVPGLSG SEEPGEVPQT RLPLTYPAPN GDPILQLLEG RKGДREAQVF VRLRRHRAKQ  
ASQHALRPAP **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.**

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

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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

## Target Details

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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

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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

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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