

Datasheet for ABIN7552717
C2CD2L Protein (AA 1-706) (His tag)



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Overview

Quantity:	1 mg
Target:	C2CD2L
Protein Characteristics:	AA 1-706
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This C2CD2L protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant C2CD2L Protein expressed in mammalian cells.
Sequence:	MDPGWGQRDV GWAALLILFA ASLLTVFAWL LQYARGLWLA RARGDRGPGP ALAGEPAGSL RELGVWRSLL RLRATRAGAA EEPGVRGLLA SLFAFKSFRE NWQRAWVRAL NEQACRNGSS IQIAFEEVPQ LPPRASISHV TCVDQSEHTM VLRCQLSAEE VRFPVSVTQQ SPAAVSMETY HVTLTLPPTQ LEVNLEEIPG EGLLISWAFT DRPDLSTLTVL PKLQARERGE EQVELSTIEE LIKDAIVSTQ PAMMVNLRAC SAPGGLVPSE KPPMMPQAQP AIPRPNRLF RQLRASHLGN ELEGTEELCC VAELDNPMQK KWTKPARAGS EVEWTELDAL DLGPQSRELT LKVLRSSSCG DTELLGQATL PVGSPSRPLS RRQLCPLTPG PGKALGPAAT MAVELHYEEG SPRNLGTPTS STPRPSITPT KKIELDRTIM PDGTIVTTVT TVQSRPRIDG KLDSPSRSPS KVEVTEKTTT VLESSGPSN TSHSSSRDSH LSNGLDPVAE TAIRQLTEPS GRVAKKTPTK RSTLIISGVS KVPIAQDELA LSLGYAASLE ASVQDDAGTS GGPSSPPSDP PAMSPGPLDA LSSPTSVQEA DETRSDISE RPSVDDIESE TGSTGALETR SLKDHKVSFL RSGTKLIFRR RPRQKEAGLS QSHDDLSTAT ATPSVRKKAG SFSRRLIKRF SFKSKPKANG NPSPQL Sequence without tag. The

Product Details

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

Target: C2CD2L

Alternative Name: C2CD2L ([C2CD2L Products](#))

Background: Phospholipid transfer protein C2CD2L (C2 domain-containing protein 2-like) (C2CD2-like) (Transmembrane protein 24),FUNCTION: Lipid-binding protein that transports phosphatidylinositol, the precursor of phosphatidylinositol 4,5-bisphosphate (PI(4,5)P2), from its site of synthesis in the endoplasmic reticulum to the cell membrane (PubMed:28209843). It thereby maintains the pool of cell membrane phosphoinositides, which are degraded during phospholipase C (PLC) signaling (PubMed:28209843). Plays a key role in the coordination of Ca(2+) and phosphoinositide signaling: localizes to sites of contact between the endoplasmic reticulum and the cell membrane, where it tethers the two bilayers (PubMed:28209843). In

Target Details

response to elevation of cytosolic Ca(2+), it is phosphorylated at its C-terminus and dissociates from the cell membrane, abolishing phosphatidylinositol transport to the cell membrane (PubMed:28209843). Positively regulates insulin secretion in response to glucose: phosphatidylinositol transfer to the cell membrane allows replenishment of PI(4,5)P2 pools and calcium channel opening, priming a new population of insulin granules (PubMed:28209843). {ECO:0000269|PubMed:28209843}.

Molecular Weight: 76.2 kDa

UniProt: [O14523](#)

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