

Datasheet for ABIN7562421
IL16 Protein (AA 1-1322) (His tag)



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3 Images

Overview

Quantity:	1 mg
Target:	IL16
Protein Characteristics:	AA 1-1322
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This IL16 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant IL16 Protein expressed in mammalian cells.
Sequence:	<p>MEPHGHSGKS RKSTKFRSIS RSLILCNAKT SDDGSSPDEK YPDPFETSLC QGKEGFFHSS</p> <p>MQLADTFEAG LSNIPLDALA SDSAQLAAAG SDRGKHCRKM FFMKESSTS SKEKSGKPEA</p> <p>QSSSFLFPAK CHQRTRSNST SVNPSAGEI DFPMTKKSAA PTDRQPYSLC SNRKSLSQQL</p> <p>DYPILGTARP TRSLSTAQLG QLSGGLQASV ISNIVLMKGQ AKGLGFSIVG GKDSIYGPIG</p> <p>IYVKSIFAGG AAAADGRLQE GDEILELNGE SMAGLTHQDA LQKFKQAKKG LLTLTVRTRL</p> <p>TTPPSLCSHL SPPLCRSLSS STCGAQDSSP FSLESPASPA STAKPNYRIM VEVSLKKEAG</p> <p>VGLGIGLCSI PYFQCISGIF VHTLSPGSVA HLDGRLRCGD EIVEINDSPV HCLTLNEVYT</p> <p>ILSHCDPGPV PIIVSRHPDP QVSEQQLKEA VAQAVEGVKF GKDRHQWSLE GVKRLESSWH</p> <p>GRPTLEKERE KHSAPPHRRA QKIMVRSSSD SSYMSGSPGG SPCSAGAEPQ PSEREGSTHS</p> <p>PSLSPGEEQE PCPGVPSRPQ QESPPLPEL ERESHPPLRL KKSFEILVRK PTSSPKPKPP</p> <p>RKYFKNDSEP QKKLEEKEKV TDPSGHTLPT CSQETRELLP LLLQEDTAGR APCTAACCPG</p> <p>PAASTQTSSS TEGESRRSAS PETPASPGKH PLLKRQARMY YSFDITAEDP WVRISDCIKN</p>

LFSPIMSENH SHTPLQPNTS LGEEDGTQGC PEGGLSKMDA ANGAPRVYKS ADGSTVKKGP
PVAPKPAWFR QSLKGLRNRA PDPRRPPEVA SAIQPTPVSF DPPGPQPQAS SSIRQRISF
ENFGSSQLPD RGVQRLSLQP SSGETTKFPG KQDGGRFSG LQGATVTAK HRQTEVESMS
TTFPNSSEVR DPGLPESPPP GQRPSTKALS PDPLRLTT QSEDQGPGL KMPSQRARSF
PLTRTQSCET KLLDEKASKL YSISQLSSA VMKSLCLPS SVSCGQITCI PKERVSPKSP
CNNSSAAEGF GEAMASDTGF SLNLSELREY SEGLTEPGET EDNRHCSSQA GQSVISLLSA
EELEKLEEV RVLDEATLKQ LDSIHVTILH KEEGAGLGFS LAGGADLENK VITVHRVFPN
GLASQEGTIQ KGNEVLSING KSLKGATHND ALAILRQARD PRQAVIVTRR TTVEATHDLN
SSTDSAASAS AASDISVESK EATVCTVTLE KTSAGLGFS LGGKGS LHGD KPLTINRIFK
GTEQGEMVQP GDEILQLAGT AVQGLTRFEA WNVIKALPDG PVTIVIRRTS LQCKQTTASA DS

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

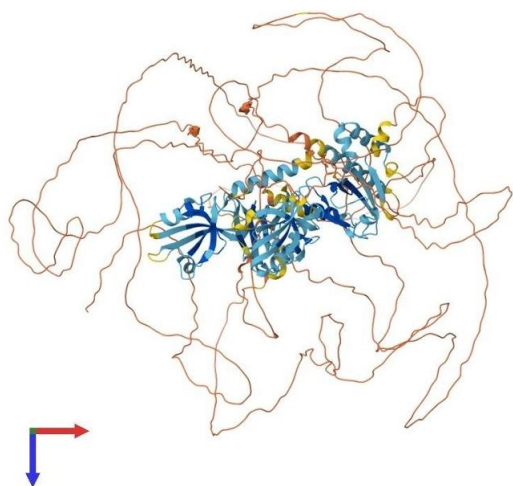
Target:	IL16
Alternative Name:	IL16 (IL16 Products)
Background:	Pro-interleukin-16 [Cleaved into: Interleukin-16 (IL-16) (Lymphocyte chemoattractant factor) (LCF)],FUNCTION: Interleukin-16 stimulates a migratory response in CD4+ lymphocytes, monocytes, and eosinophils. Primes CD4+ T-cells for IL-2 and IL-15 responsiveness. Also induces T-lymphocyte expression of interleukin 2 receptor. Ligand for CD4., FUNCTION: Isoform 1 may act as a scaffolding protein that anchors ion channels in the membrane., FUNCTION: Isoform 2 is involved in cell cycle progression in T-cells. Appears to be involved in transcriptional regulation of SKP2 and is probably part of a transcriptional repression complex on the core promoter of the SKP2 gene. May act as a scaffold for GABPB1 (the DNA-binding subunit the GABP transcription factor complex) and HDAC3 thus maintaining transcriptional repression and blocking cell cycle progression in resting T-cells.
Molecular Weight:	141.4 kDa
UniProt:	O54824

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

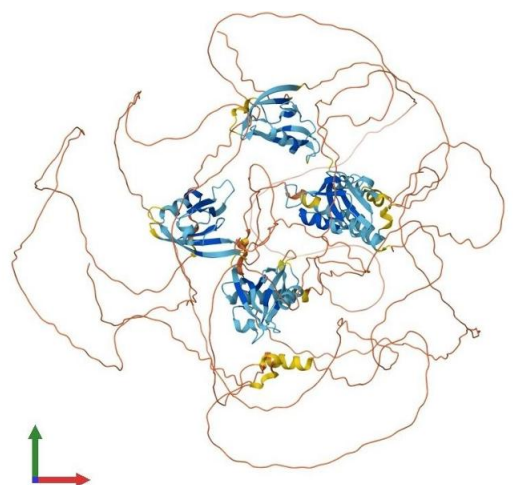
Handling

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



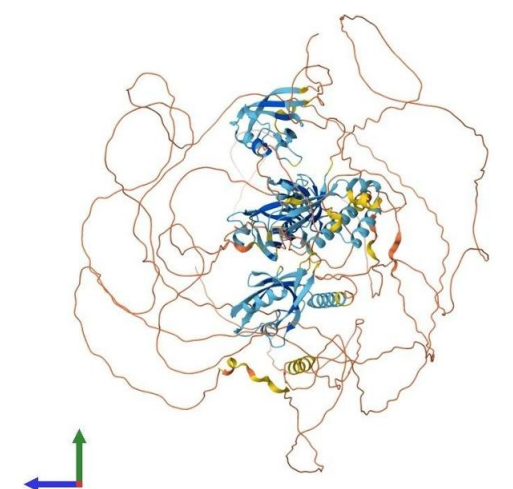
Protein Structure

Image 1. AlphaFold protein structure prediction of Mouse Recombinant II16 Protein, UniprotID O54824



Protein Structure

Image 2. AlphaFold protein structure prediction of Mouse Recombinant II16 Protein, UniprotID O54824



Protein Structure

Image 3. AlphaFold protein structure prediction of Mouse Recombinant II16 Protein, UniprotID O54824