

Datasheet for ABIN3131766 IL16 Protein (AA 1-1322) (His tag)



[Go to Product page](#)

1 Image

Overview

Quantity:	1 mg
Target:	IL16
Protein Characteristics:	AA 1-1322
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This IL16 protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB), ELISA, Crystallization (Crys)

Product Details

Sequence:	MEPHGHSGKS RKSTKFRSIS RSLILCNAKT SDDGSSPDEK YPDFFETSLC QGKEGFFHSS MQLADTFEAG LSNIPLDALA SDSAQLAAAG SDRGKHCRKM FFMKESSTSS SKEKSGKPEA QSSSFLFPAK CHQRTRSNST SVNPYSAGEI DFPMTKKSA PTDRQPYSLC SNRKSLSQQL DYPILGTARP TRSLSTAQLG QLSGGLQASV ISNIVLMKGQ AKGLGFSIVG GKDSIYGPIG IYVKSIFAGG AAAADGRLQE GDEILELNGE SMAGLTHQDA LQKFKQAKKG LLTLTVRTRL TTPPSLCSHL SPPLCRSLSS STCGAQDSSP FSLESPASPA STAKPNYRIM VEVSLKKEAG VGLGIGLCSI PYFQCISGIF VHTLSPGSVA HLDGRLRCGD EIVEINDSPV HCLTLNEVYT ILSHCDPGPV PIIVSRHPDP QVSEQLKEA VAQAVEGVKF GKDRHQWSLE GVKRLESSWH GRPTLEKERE KHSAPPHRRA QKIMVRSSSD SSYMSGSPGG SPCSAGAEPQ PSEREGSTHS PSLSPGEEQE PCPGVPSRPQ QESPPLPEL ERESHPPLRL KKSFEILVRK PTSSPKPKPPP RKYFKNDSEP QKKLEEKEKV TDPSGHTLPT CSQETRELLP LLLQEDTAGR APCTAACCPG PAASTQTSSS TEGESRRSAS PETPASPGKH PLLKRQARMD YSFDITAEDP WVRISDCIKN
-----------	--

LFSPIMSENH SHTPLQPNTS LGEEDGTQGC PEGGLSKMDA ANGAPRVYKS ADGSTVKKGP
PVAPKPAWFR QSLKGLRNRA PDPRRPPEVA SAIQPTPVSF DPPGPQPAS SSIRQRISF
ENFGSSQLPD RGVQRLSLQP SSGETTTFPG KQDGGFSGSL LGQGATVTAK HRQTEVESMS
TTFPNSSEVR DPGLPESPPP GQRPSTKALS PDPLRLTT QSEDTQGPGL KMPSQRARSF
PLTRTQSCET KLLDEKASKL YSISSQLSSA VMKSLCLPS SVSCGQITCI PKERVSPKSP
CNNSSAAEGF GEAMASDTGF SLNLSELREY SEGLTEPGET EDNRHCSSQA GQSVISLLSA
EELEKLIEEV RVLDEATLKQ LDSIHVTILH KEEGAGLGFS LAGGADLENK VITVHRVFPN
GLASQEGTIQ KGNEVLSING KSLKGATHND ALAILRQARD PRQAVIVTRR TTVEATHDLN
SSTDSAASAS AASDISVESK EATVCTVTLE KTSAGLGFS EGGKGS LHGD KPLTINRIFK
GTEQGEMVQP GDEILQLAGT AVQGLTRFEA WNVIKALPDG PVTIVIRRTS LQCKQTTASA DS

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.
- Mouse Il16 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 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

Product Details

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:	IL16
Alternative Name:	IL16 (IL16 Products)
Background:	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., Isoform 1 may act as a scaffolding protein that anchors ion channels in the membrane., 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:	142.4 kDa Including tag.
UniProt:	O54824

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.
Comment:	Protein has not been tested for activity yet. 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

Application Details

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