

Datasheet for ABIN3137617

Interleukin enhancer-binding factor 3 (ILF3) (AA 1-898) protein (His tag)



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1 Image

Overview

Quantity:	1 mg
Target:	Interleukin enhancer-binding factor 3 (ILF3)
Protein Characteristics:	AA 1-898
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	His tag
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA, Crystallization (Crys)

Product Details

Sequence: MRPMRIFVND DRHVMAKHSS VYPTQEELEA VQNMVSHTER ALKAVSDWID EQEKGNSELS
 EAENMDTPPD DESKEGAGEQ KAEHMTRTLR GVMRVGLVAK GLLLLKGDLDL ELVLLCCEKP
 TTALLDKVAD NLAIQLTTVT EDKYEILQSV DDAAIVIKNT KEPPLSLTIH LTSPVVREEM
 EKVLGETLS VNDPPDVLDR QKCLAALASL RHAKWFQARA NGLKSCVIMI RVLRLDLCTRV
 PTWGPLRGWP LELLCEKSIG TANRPMGAGE ALRRVLECLA SGIVMPDGSG IYDPCEKEAT
 DAIGHLDRQQ REDITQSAQH ALRLAAFGQL HKVLGMDPLP SKMPKPKPNE NPVDYTVQIP
 PSTTYAITPM KRPMEEDEE KSPSKKKKKI QKKEEKADPP QAMNALMRLN QLKPGLQYKL
 ISQTGPVHAP IFTMSVEVDG SNFEASGPSK KTAKLHVAVK VLQDMGLPTG AEGRDSSKGE
 DSAEESDGKP AIVAPPPVVE AVSNPSSVFP SDATTEQGPI LTKHGKNPVM ELNEKRRGLK
 YELISETGGS HDKRFVMEVE VDGQKFQGAG SNKKVAKAYA ALAALEKLFP DTPLALEANK
 KKRTVPVVRG GPKFAAKPHN PGFGMGGPMH NEVPPPPNIR GRGRGGNIRG RGRGRGFGGA
 NHGGGYMNAG AGYGSYGYSS NSATAGYSQF YSNGGHSGNA GGGGSGGGGG SSSYSSYYQG

DSYNSPVPPK HAGKKPLHGG QQKASYSSGY QSHQGQQPY NQSQYSSYGT PQGKQKGYGH
GQGSYSSYSN SYNTPGGGGG SDYSYDSKFN YSGSGGRSGG NSYGSSGSSS YNTGSHGGYG
TSGSGSSSYQ GKQGGYSSQS NYSSPGSSQS YSGPASSYQS SQGGYSRNTE HSMNYQYR

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 Ilf3 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 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

Product Details

Endotoxin Level: Protein is endotoxin free.

Grade: Crystallography grade

Target Details

Target: Interleukin enhancer-binding factor 3 (ILF3)

Alternative Name: Ilf3 ([ILF3 Products](#))

Background: May facilitate double-stranded RNA-regulated gene expression at the level of post-transcription. Can act as a translation inhibitory protein which binds to coding sequences of acid beta-glucosidase (GCase) and other mRNAs and functions at the initiation phase of GCase mRNA translation, probably by inhibiting its binding to polysomes. Can regulate protein arginine N-methyltransferase 1 activity. Can promote the formation of stable DNA-dependent protein kinase holoenzyme complexes on DNA (By similarity). The phosphorylated form at Thr-188 and Thr-315, in concert with EIF2AK2/PKR can inhibit vesicular stomatitis virus (VSV) replication. {ECO:0000250, ECO:0000269|PubMed:21123651}.

Molecular Weight: 97.0 kDa Including tag.

UniProt: [Q9Z1X4](#)

Pathways: [M Phase](#)

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 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

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