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STAT2 Protein (AA 1-923) (His tag)





Go to Product page

Overview

Quantity:	1 mg
Target:	STAT2
Protein Characteristics:	AA 1-923
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This STAT2 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA, Crystallization (Crys)

Product Details

Sequence:

MAQWEMLQNL DSPFLDQLHQ VYSQSFLPMD FRQHLASWIE DQNWREAALE SDDAKANMLY FSILDQLNQW DHYSSDPKSL LLQHNLRKFS RDIQPFPNGP SQLAEMIFNL LLEEQRILIQ AQRAQEVQPP PAPEAVVESQ QLEIENRIQG LHVDIEFLVR SIRQLKDEQD VFSFRYTVFS LKKTSSSDPH QSQQAHVVQA TANKVDRMRK EVLDISKGLV GRLTTLVDLL LPKLDEWKVQ QQKSCIGAPP PVKSAAEQLE QWLTAGAKFL FHLRQLLKQL KEMSCLRYQG DMFAKGVDLR NAQVMELLQR LLQRSFVVET QPCMPQTLHR PLILKTGNKF TVRTRLLVRL QEGSESLKAE VSVDRNSDLP GFRKFNILTS NQKTLTPEKG QRQGLIWDFG FLTLVEQRAV GAGKGNNKGP LAVTEELHVI SFVVEYTYQG LKMKLQTDTL PVVIISNMNQ LSFAWASILW FNMLSPNPKN QQFFCQAPKA PWSLLGPVLS WQFSSYVARG LDSEQLGMLR TKLFGKSCKM EDALLSWVDF CKRESPPGKI PFWTWLDKIL ELVHDHLKDL WKDGRIMGFV SRNQERRLLK KMLSGTFLLR FSETSEGGIT CSWVEHQDDH KVEIYSVQPY TKEVLQSLPL TEIIRHYQVL AEENIPENPL RFLYPRIPRD EAFGCYYQEK VNLEEQEEYL KHKLIVISNR QVDELQQPLE LKQDSESLEV

NAELLLAHDQ ELPLMMQTGL VLGTELKVDP ILSTAPQVLL EPAPQVLLEP APQVLLEPAPQVLLEPAPQVLLEPAPQVLL EPAPQVLLEPAPQVLL EPAPQVLLEPAPQVLL ELAPQVQLEP AHLLQQPSES DLPEDLQQIS VEDLKKLSNP STEYITTNEN PMLAGESSGD ETSIPYHSHF DADGLLGWTL DTF

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 Stat2 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 receival 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.
- 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.

Product Details Sterility: 0.22 µm filtered Protein is endotoxin free. Endotoxin Level: Grade: Crystallography grade **Target Details** STAT2 Target: Alternative Name: Stat2 (STAT2 Products) Background: Signal transducer and activator of transcription that mediates signaling by type I IFNs (IFNalpha and IFN-beta). Following type I IFN binding to cell surface receptors, Jak kinases (TYK2 and JAK1) are activated, leading to tyrosine phosphorylation of STAT1 and STAT2. The phosphorylated STATs dimerize, associate with IRF9/ISGF3G to form a complex termed ISGF3 transcription factor, that enters the nucleus. ISGF3 binds to the IFN stimulated response element (ISRE) to activate the transcription of interferon stimulated genes, which drive the cell in an antiviral state. Molecular Weight: 106.4 kDa Including tag. UniProt: Q9WVL2 JAK-STAT Signaling, Hepatitis C, CXCR4-mediated Signaling Events Pathways: **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 gurantee 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

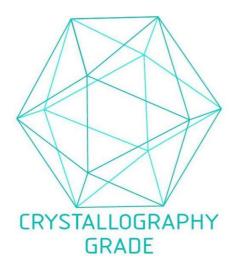


Image 1. "Crystallography Grade" protein due to multi-step, protein-specific purification process