

Datasheet for ABIN7563415
JAK1 Protein (AA 1-1153) (His tag)



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Overview

Quantity:	1 mg
Target:	JAK1
Protein Characteristics:	AA 1-1153
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This JAK1 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Purpose:	Custom-made recombinat Jak1 Protein expressed in mammalian cells.
Sequence:	<p>MQYLNKEDC NAMAFCAMR SFKKTEVKQV VPEPGVEVTF YLLDREPLRL GSGEYTADEL</p> <p>CIRAAQECSE SPLCHNLFAL YDESTKLWYA PNRIITVDDK TSLRLHYRMR FYFTNWHGTN</p> <p>DNEQSVWRHS PKKQKNGYEK KRVPEATPLL DASSLEYLFA QGQYDLIKCL APIRDPKTEQ</p> <p>DGHDINECL GMAVLAISHY AMMKKMQLPE LPKDISYKRY IPETLNKSIR QRNLLTRMRI</p> <p>NNVFKDFLKE FNNKTICDSS VHDLKVKYLA TLETSTLTKH YGAEIFETSM LLISSNELS</p> <p>RCHSNDSGNV LYEVMTGNL GIQWRQKPNV VPVEKEKNKL KRKKLEYKNH KKDDERNKLR</p> <p>EEWNNFSYFP EITHIVIKES VVSINKQDNK NMELKLSSRE EALSFVSLVD GYFRLTADAH</p> <p>HYLCTDVAPP LIVHNIQNGC HGPICTEYAI NKLRQEGSEE GMYVLRWSCT DFDNILMTVT</p> <p>CFEKSEVLGG QKQFKNFQIE VQKGRYSLHG SMDHFPSLRD LMNHLKKQIL RTDNISFVLK</p> <p>RCCQPKPREI SNLLVATKKA QEWQPVYSMS QLSFDRILKK DIIQGEHLGR GTRTHIYSGT</p> <p>LLDYKDEEGI AEEKKIKVIL KVLDPShrdi SLAFFEAASM MRQVSHKHIV YLYGVCVRDV</p>

Product Details

ENIMVEEFVE GGPLDLFMHR KSDALTTPWK FKVAKQLASA LSYLEDKDLV HGNVCTKNLL
LAREGIDSDI GPFIKLSDPG IPVSVLTRQE CIERIPWIAP ECVEDSKNLS VAADKWSFGT
TLWEICYNGE IPLKDKTLIE KERFYESRCR PVTPSCKELA DLMTRCMNYD PNQRPFRAI
MRDINKLEEQ NPDIVSEKQP TTEVDPTHFE KRFLKRIRD L GEGHFGKVEL CRYDPEGDNT
GEQVAVKSLK PESGGNHIAD LKKEIEILRN LYHENIVKYK GICMEDGGNG IKLIMEFLPS
GSLKEYLPKN KNKINLKQQL KYAIQICKGM DYLGSRQYVH RDLAARNVLV ESEHQVKIGD
FGLTKAIETD KEYYTVKDDR DSPVFWYAPE CLIQCKFYIA SDVWSFGVTL HELLTYCDSD
FSPMALFLKM IGPTHGQMTV TRLVKTLKEG KRLPCPPNCP DEVYQLMRKC WEFQPSNRRT
FQNLIEGFEA LLK **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.**

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, Western Blot

Grade:

custom-made

Target Details

Target:

JAK1

Alternative Name:

Jak1 ([JAK1 Products](#))

Background:

Tyrosine-protein kinase JAK1 (EC 2.7.10.2) (Janus kinase 1) (JAK-1),FUNCTION: Tyrosine kinase of the non-receptor type, involved in the IFN-alpha/beta/gamma signal pathway. Kinase

Target Details

partner for the interleukin (IL)-2 receptor as well as interleukin (IL)-10 receptor. Kinase partner for the type I interferon receptor IFNAR2. In response to interferon-binding to IFNAR1-IFNAR2 heterodimer, phosphorylates and activates its binding partner IFNAR2, creating docking sites for STAT proteins. Directly phosphorylates STAT proteins but also activates STAT signaling through the transactivation of other JAK kinases associated with signaling receptors. {ECO:0000250|UniProtKB:P23458}.

Molecular Weight:	133.4 kDa
UniProt:	P52332
Pathways:	JAK-STAT Signaling , RTK Signaling , Interferon-gamma Pathway , Hepatitis C , Toll-Like Receptors Cascades , Unfolded Protein Response

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.
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