

Datasheet for ABIN7554205
JAK1 Protein (AA 1-1154) (His tag)



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Overview

Quantity:	1 mg
Target:	JAK1
Protein Characteristics:	AA 1-1154
Origin:	Human
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:	MQYLNKEDC NAMAFCAMR SSKKTEVNLE APEPGVEVIF YLSDREPLRL GSGEYTADEL CIRAAQACRI SPLCHNLFAL YDENTKLWYA PNRTITVDDK MSLRLHYRMR FYFTNWHGTN DNEQSVWRHS PKKQKNGYEK KIPDATPLL DASSLEYLFA QGQYDLVKCL APIRDPKTEQ DGHDINECL GMAVLAISHY AMMKKMLPE LPKDISYKRY IPETLNKSIR QRNLLTRMRI NNVFKDFLKE FNNKTICDSS VSTHDLKVYK LATLETCLKH YGAEIFETSM LLISSNEMN WFHSNDGGNV LYYEVMVTGN LGIQRHKKPN VVSVEKEKNK LKRKKLENKH KKDEEKNKIR EEWNNFSYFP EITHIVIKES VVSINKQDNK KMELKLSSHE EALSFVSLVD GYFRLTADAH HYLCTDVAPP LIVHNIQNGC HGPICTEYAI NKLRQEGSEE GMYVLRWSCT DFDNIMMTVT CFEKSEQVQG AQKQFKNFQI EVQKGRYSLH GSDRSFPSLG DLMSHLKKQI LRTDNISFML KRCCQPKPRE ISNLLVATKK AQEWQPVYPM SQLSFDRILK KDLVQGEHLG RGTRTHIYSG TLMDYKDDEG TSEEKKIKVI LKVLDPSHRD ISLAFEEAAS MMRQVSHKHI VYLYGVCVRD

VENIMVEEFV EGGPLDLFMH RKSDVLTTPW KFKVAKQLAS ALSYLEDKDL VHGNVCTKNL
LLAREGIDSE CGPFIKLSDP GIPITVLSRQ ECIERIPWIA PECVEDSKNL SVAADKWSFG
TTLWEICYNG EIPLKDKTLI EKERFYESRC RPYTPSCKEL ADLMTRCMNY DPNQRPFRA
IMRDINKLEE QNPDIVSEKK PATEVDPTHF EKRFLKRIRD LGEGHFGKVE LCRYDPEGDN
TGEQVAVKSL KPESGGNHIA DLKKEIEILR NLYHENIVKY KGICTEDGGN GIKLIMEFLP
SGSLKEYLPK NKNKINLKQQ LKYAVQICKG MDYLGSRQYV HRDLAARNVL VESEHQVKIG
DFGLTKAIET DKEYYTVKDD RDSPVFWYAP ECLMQSKFYI ASDVWSFGVT LHELLTYCDS
DSSPMALFLK MIGPTHGQMT VTRLVNTLKE GKRLPCPPNC PDEVYQLMRK CWEFQPSNRT
SFQNLIEGFE ALLK **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

Target Details

(PubMed:8232552, PubMed:7615558, PubMed:28111307, PubMed:32750333, PubMed:16239216). Kinase partner for the interleukin (IL)-2 receptor (PubMed:11909529) as well as interleukin (IL)-10 receptor (PubMed:12133952). Kinase partner for the type I interferon receptor IFNAR2 (PubMed:8232552, PubMed:7615558, PubMed:28111307, PubMed:32750333, PubMed:16239216). In response to interferon-binding to IFNAR1-IFNAR2 heterodimer, phosphorylates and activates its binding partner IFNAR2, creating docking sites for STAT proteins (PubMed:7759950). Directly phosphorylates STAT proteins but also activates STAT signaling through the transactivation of other JAK kinases associated with signaling receptors (PubMed:8232552, PubMed:16239216, PubMed:32750333). {ECO:0000269|PubMed:11909529, ECO:0000269|PubMed:12133952, ECO:0000269|PubMed:16239216, ECO:0000269|PubMed:28111307, ECO:0000269|PubMed:32750333, ECO:0000269|PubMed:7615558, ECO:0000269|PubMed:7657660, ECO:0000269|PubMed:8232552}.

Molecular Weight: 133.3 kDa

UniProt: [P23458](#)

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