

Recombinant Human STAT1, His-tagged

Cat. No. STAT1-72H Lot. No. (See product label)

SPECIFICATION

Product Overview STAT1 Recombinant Human produced in E.Coli is a single, non-glycosylated polypeptide chain containing 732 amino acids (1-712 a.a.) and having a molecular mass of 85.2 kDa. The STAT1 is fused to 20 amino acid His-Tag at N-terminus and purified by proprietary chromatographic techniques.

Species Human

Source E.coli

Description STAT1 is a member of the Signal Transducers and Activators of Transcription family of transcription factors. STAT1 is involved in upregulating genes due to a signal by either type I or type II interferons. In response to IFN- γ stimulation, STAT1 forms homodimers or heterodimers with STAT3 that bind to the GAS (Interferon-Gamma Activated Sequence) promoter element; in response to either IFN- α or IFN- β stimulation, STAT1 forms a heterodimer with STAT2 that can bind the ISRE (Interferon Stimulated Response Element) promoter element. In either case, binding of the promoter element leads to an increased expression of ISG (Interferon Stimulated Genes).

Amino Acid Sequence
 MGSSHHHHHH SSGLVPRGSH MSQWYELQQL DSKFLEQVHQ LYDDSFPMEI
 RQYLAQWLEK QDWEHAANDV SFATIRFHDL LSQLDDQYSR FSLENNFLLQ
 HNIRKSKRNL QDNFQEDPIQ MSMIYSLCK EERKILENAQ RFNQAQSGNI
 QSTVMLDKQK ELDSKVRNVK DKVMCIEHEI KSLEDLQDEY DFKCKTLQNR
 EHETNGVAKS DQKQEQLLLK KMYLMLDNKR KEVVHKIIEI LNVTELTQNA

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LINDELVEWK RRQQSACIGG PPNACLDQLQ NWFTIVAESL QQVRQQLKKL
 EELEQKYTYE HDPITKNKQV LWDRTFSLFQ QLIQSSFVVE RQPCMPHPQ
 RPLVLKTGVQ FTVKLRLLVK LQELNYNLKV KVLFDKDVNE RNTVKGFRKF
 NILGTHTKVM NMEESTNGSL AAEFRHLQLK EQKNAGTRTN EGPLIVTEEL
 HSLSFETQLC QPGLVIDLET TSLPVVVISN VSQLPSGWAS ILWYNMLVAE
 PRNLSFFLTP PCARWAQLSE VLSWQFSSVT KRGLNVDQLN MLGEKLLGPN
 ASPDGLIPWT RFCKENINDK NFPFWLWIES ILELIKKHLL PLWNDGCIMG
 FISKERERAL LKDQQPGTFL LRFSESSREGAITFTWVERS QNGGEPDFHA
 VEPYTKKELS AVTFPDIIRN YKVMAAENIP ENPLKYLYPN IDKDHAFGKY
 YSRPKEAPEP MELDGPKGTG YIKTELISVS EV.

Physical Appearance	Sterile Filtered clear solution.
Purity	Greater than 90% as determined by SDS-PAGE.
Formulation	STAT1 0.5mg/ml protein solution contains 20 mM Tris-HCl buffer pH-8, 0.1M NaCl, 1mM DTT, and 10% glycerol.
Storage	Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. Avoid multiple freeze-thaw cycles.


GENE INFORMATION

Gene Name	STAT1 signal transducer and activator of transcription 1, 91kDa [Homo sapiens]
Synonyms	STAT1; signal transducer and activator of transcription 1, 91kDa; transcription factor ISGF-3 components p91/p84; Signal transducer and activator of transcription 1-alpha/beta; ISGF-3; STAT91; DKFZp686B04100; signal transducer and activator of transcription 1; OTTHUMP00000205845; signal transducer and activator of transcription-1; OTTHUMP00000165047; Transcription factor ISGF-3 components

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	p91/p84
Gene ID	6772
mRNA Refseq	NM_007315
Protein Refseq	NP_009330
MIM	600555
UniProt ID	P42224
Chromosome Location	2q32.2-q32.3
Pathway	Chemokine signaling pathway; Jak-STAT signaling pathway; Pancreatic cancer; Pathways in cancer; Toll-like receptor signaling pathway; Signaling by PDGF
Function	calcium ion binding; hematopoietin/interferon-class (D200-domain) cytokine receptor signal transducer activity; protein binding; sequence-specific DNA binding; signal transducer activity; transcription factor activity
STAT1bound to DNA	

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