

Recombinant Human STAT1, no tag

Cat. No. STAT1-73H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human Signal Transducer and Activator of Transcription 1-Alpha/Beta/STAT1 is produced with our E. coli expression system. The target protein is expressed with sequence (Met1-Val712) of Human STAT1.
Species	Human
Source	E.coli
ProteinLength	1-712 a.a.
Description	The protein encoded by this gene is a member of the STAT protein family. In response to cytokines and growth factors, STAT family members are phosphorylated by the receptor associated kinases, and then form homo- or heterodimers that translocate to the cell nucleus where they act as transcription activators. This protein can be activated by various ligands including interferon-alpha, interferon-gamma, EGF, PDGF and IL6. This protein mediates the expression of a variety of genes, which is thought to be important for cell viability in response to different cell stimuli and pathogens. Two alternatively spliced transcript variants encoding distinct isoforms have been described.
Form	Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4
AA Sequence	GSHMSQWYELQQLDSKFLEQVHQLYDDSFPMQYLAQWLEKQDWEHAANDVS FATIRFHDLLS QLDDQYSRFSLENNFLLQHNIRKSKRNLQDNFQEDPIQMSEIYSCL KEERKILENAQRFNQAQS GNIQSTVMLDKQKELDSKVRNVKDKVMCIEHEIKSLEDL

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QDEYDFKCKTLQNREHETNGVAKSDQ KQEQLLLKKMYLMLDNKRKEVVHKIIELLN
 VTELTQNALINDELVEWKRRQQSACIGGPPNACLD QLQNWFTIVAESLQQVRQQLK
 KLEELEQKYTYEHDPITKNKQVLWDRTFSLFQQLIQSSFVVERQ PCMPTHPQRPLV
 LKTGVQFTVKLRLLVKLQELNYNLKVKVLFDKDVNERNTVKGFRKFNILGHT KVMN
 MEESTNGSLAAEFRHLQLKEQKNAGTRTNEGPLIVTEELHSLSFETQLCQPGLVIDL
 ETTS LPVVVISNVSQLPSGWASILWYNMLVAEPRNLSFFLTPPCARWAQLSEVLSW
 QFSSVTKRGLNVD QLNMLGEKLLGPNASPDGLIPWTRFCKENINDKNFPFWLWIESI
 LELIKKHLLPLWNDGCIMGFI SKERERALLKDQQPGTFLLRFSESSREGAITFTWVER
 SQNGGEPDFHAVEPYTKKELSAVTFPDI IRNYKVMAAENIPENPLKYLYPNIDKDHAFA
 GKYYSRPKEAPEPEMELDGPKGTYIKTELISVSEV

Endotoxin	Less than 0.1 ng/g (1 IEU/g).
Purity	Greater than 95% as determined by SEC-HPLC and reducing SDS-PAGE.
Storage	Lyophilized protein should be stored at < -20°C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
Reconstitution	Always centrifuge tubes before opening. Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than 100 µg/ml. Dissolve the lyophilized protein in 1X PBS. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.
Shipping	The product is shipped at ambient temperature.

GENE INFORMATION

Gene Name	STAT1 signal transducer and activator of transcription 1, 91kDa [Homo sapiens (human)]
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Official Symbol	STAT1
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 p91/p84
Gene ID	6772
mRNA Refseq	NM_007315
Protein Refseq	NP_009330
MIM	600555
UniProt ID	P42224
Chromosome Location	2q32.2
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