

Recombinant Human STAT1 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. STAT1-4597H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	STAT1 MS Standard C13 and N15-labeled recombinant protein (NP_009330) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
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.
Molecular Mass	87.2 kDa
AA Sequence	MSQWYELQQLDISKFLEQVHQLYDDSFPMERQYLAQWLEKQDWEHAANDVSFATIRFHDLLSQLDDQYSRFSLENNFLLQHNIRKSKRNLQDNFQEDPIQMSMIIYSCLKEERKILENAQRFNQAQSGNIQSTVMLDKQKELDSKVRNVKDKVMCIEHEIKSLEDLQDEYDFKCKTLQNREHETNGVAKSDQKQEQLLLKKMYLMLDNKRKEVVHKIIELLNVTETL

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QNALINDELVEWKRRQQSACIGGPPNACLDQLQNWFTIVAESLQQVRQQLKKLEEL
EQKYTYEHDPITKNKQVLWDRFSLFQQLIQSSFVVERQPCMPHPQRPLVLKTGV
QFTVKLRLLVKLQELNYNLKVKVLFDKDVNERNTVKGFRKFNILGHTHTKVMNMEEST
NGSLAAEFRHLQLKEQKNAGTRTNEGPLIVTEELHSLSFETQLCQPGGLVIDLETTSLP
VVVISNVSQLP SGWASILWYNMLVAEPRNLSFFLTTPPCARWAQLSEVLSWQFSSVT
KRGLNVDQLNMLGEKLLGPNASPDGLIPWTRFCKENINDKNFPFWLWIESILELIKHH
LLPLWNDGCIMGFISKERERALLKDQQPGTFLLRFSESSREGAITFTWVERSQNGGE
PDFHAVEPYTKKELSAVTFPDIIRNYKVMAAENIPENPLKYLYPNIDKDHAFGKYYSR
PKEAPEPEMELDGPKGTGYIKTELISVSEVHPSRLQTTDNLLPMSPEEFDEVSRIVGSV
EFDSMMNTVTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name STAT1 signal transducer and activator of transcription 1 [Homo sapiens (human)]

Official Symbol STAT1

Synonyms STAT1; signal transducer and activator of transcription 1, 91kDa; signal transducer and activator of transcription 1, 91kD; signal transducer and activator of transcription 1-alpha/beta; ISGF 3; STAT91; transcription factor ISGF 3 components p91/p84;

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transcription factor ISGF-3 components p91/p84; signal transducer and activator of transcription-1; CANDF7; ISGF-3; DKFZp686B04100;

Gene ID [6772](#)

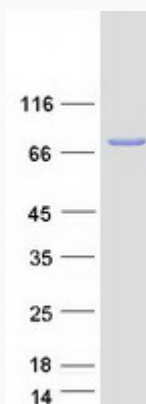
mRNA Refseq [NM_007315](#)

Protein Refseq [NP_009330](#)

MIM [600555](#)

UniProt ID [P42224](#)

SDS-PAGE



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