

Recombinant Human STAT3 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. STAT3-5975H Lot. No. (See product label)

SPECIFICATION

Product Overview	STAT3 MS Standard C13 and N15-labeled recombinant protein (NP_644805) 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 is activated through phosphorylation in response to various cytokines and growth factors including IFNs, EGF, IL5, IL6, HGF, LIF and BMP2. This protein mediates the expression of a variety of genes in response to cell stimuli, and thus plays a key role in many cellular processes such as cell growth and apoptosis. The small GTPase Rac1 has been shown to bind and regulate the activity of this protein. PIAS3 protein is a specific inhibitor of this protein. Mutations in this gene are associated with infantile-onset multisystem autoimmune disease and hyper-immunoglobulin E syndrome. Alternative splicing results in multiple transcript variants encoding distinct isoforms.
Molecular Mass	87.9 kDa

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

AA Sequence

MAQWNQLQQLDTRYLEQLHQLYSDSFPMELRQFLAPWIESQDWAYAASKESHATL
 VFHNLLGEIDQQYSRFLQESNVLYQHNLRRRIKQFLQSRYLEKPMIARIVARCLWEES
 RLLQTAATAAQGGQANHPTAAVVTEKQQMLEQHLQDVRKRVQDLEQKMKVVENL
 QDDFDNFYKTLKSQGDMQDLNGNNQSVTRQKMQQLEQMLTALDQMRRSIVSELA
 GLLSAMEYVQKTLTDEELADWKRRQQIACIGGPPNICLDRLLENWITSLAESQLQTRQ
 QIKKLEELQQKVS YKGDPIVQHRPMLEERIVELFRNLMKSAFVVERQPCMPMHPDR
 PLVIKTGVQFTTKVRLLVKFPELNYQLKIKVCIDKDSGDVAALRGSRKFNILGTNTKVM
 NMEESNNGSLSAEFKHLTLREQRCGNGGRANCDASLIVTEELHLITFETEVYHQGLK
 IDLETHSLPVVISNICQMPNAWASILWYNMLTNNPKNVNFFTKPPIGTWDQVAEVL
 WQFSSTTKRGLSIEQLTTLAEKLLGPGVNYSGCQITWAKFCKENMAGKGFSEFWVWL
 DNIIDLVKKYILALWNEGYIMGFISKERERAILSTKPPGTFLRFSESSKEGGVTFTWV
 EKDISGKTQIQSVEPYTKQQLNNMSFAEIIMGYKIMDATNILVSPLVLYPDIPKEEAF
 GKYCRPESQEHPADPGSAAPYLKTKFICVPTTCSNTIDLPMSPRTLDSLMMQFGNN
 GEGAEPSAGGQFESLTFDMELTSECATSPMTRTRPLEQKLISEEDLAANDILDYKDD
 DDKV

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

STAT3 signal transducer and activator of transcription 3 [Homo sapiens (human)]

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Official Symbol	STAT3
Synonyms	STAT3; signal transducer and activator of transcription 3 (acute-phase response factor); signal transducer and activator of transcription 3; APRF; DNA-binding protein APRF; acute-phase response factor; HIES; FLJ20882; MGC16063;
Gene ID	6774
mRNA Refseq	NM_139276
Protein Refseq	NP_644805
MIM	102582
UniProt ID	P40763
SDS-PAGE	