

Recombinant Human STAT3, GST-tagged

Cat. No. STAT3-39228H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human STAT3 was expressed as gst-tagged fusion protein by E.Coli and purified by GSH-sepharose.
Species	Human
Source	E.coli
ProteinLength	False
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. Three alternatively spliced transcript variants encoding distinct isoforms have been described.
AA Sequence	2-219aa
Storage	The protein is stored in PBS buffer at -20 oC. Repeated freeze-thaw cycles should be avoided.

 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

Storage Buffer

1M PBS (58mM Na₂HPO₄, 17mM NaH₂PO₄, 68mM NaCl, pH8.) added with 100mM GSH and 1% Triton X-100, 15% glycerol.

GENE INFORMATION
Gene Name

STAT3 signal transducer and activator of transcription 3 (acute-phase response factor) [Homo sapiens (human)]

Official Symbol

STAT3

Synonyms

STAT3; APRF; HIES; signal transducer and activator of transcription 3 (acute-phase response factor); signal transducer and activator of transcription 3; DNA-binding protein APRF; acute-phase response factor

Gene ID

6774

mRNA Refseq

NM_003150

Protein Refseq

NP_003141

MIM

102582

UniProt ID

P40763

Chromosome Location

17q21.31

Pathway

AGE/RAGE pathway; Acute myeloid leukemia; B Cell Receptor Signaling Pathway

Function

CCR5 chemokine receptor binding; RNA polymerase II repressing transcription factor binding; glucocorticoid receptor binding

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