

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.

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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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