

Recombinant Human STAT3, GST-tagged

Cat. No. STAT3-1496H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant full-length human STAT3 was expressed by baculovirus in <i>Sf9</i> insect cells using an N-terminal GST tag. MW = 120 kDa.
Species	Human
Source	Sf9 Cells
Description	STAT3 is a member of the signal transducers and activators of transcription (STAT) family of proteins that carry out a dual function: signal transduction and activation of transcription. STAT3 is widely expressed and becomes activated through phosphorylation on tyrosine as a DNA binding protein in response to a variety of stimuli such as EGF, IL-6, PDGF, IL-2 and G-CSF. This phosphoprotein forms homodimers as well as heterodimers with other members of the STAT family and translocate to the nucleus in order to modulate the transcription of various genes.
Sequence	Full-length.
Applications	Kinase Assay, Western Blot.
Storage And Stability	Store product at -70°C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.

GENE INFORMATION

 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

Gene Name	STAT3 signal transducer and activator of transcription 3 (acute-phase response factor) [Homo sapiens]
Synonyms	STAT3; signal transducer and activator of transcription 3 (acute-phase response factor); APRF; HIES; FLJ20882; MGC16063; 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	Acute myeloid leukemia; Adipocytokine signaling pathway; Chemokine signaling pathway; Jak-STAT signaling pathway; Pancreatic cancer; Pathways in cancer; Signaling by PDGF; Signalling by NGF
Function	calcium ion binding; hematopoietin/interferon-class (D200-domain) cytokine receptor signal transducer activity; protein dimerization activity; protein kinase binding; sequence-specific DNA binding; signal transducer activity; transcription activator activity; transcription factor activity; transcription factor binding
PDB rendering based on 1bg1.	

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