

STAT6 recombinant protein

STAT6 Protein, Human, Recombinant (His Tag)

CATALOG # AAA258016	HOST Baculovirus-Insect Cells
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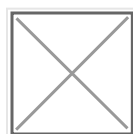
PRODUCT SYNONYMS

STAT6; STAT6 Protein; Human; Recombinant (His Tag); Human STAT6 Protein (His Tag); D12S1644 Protein; IL-4-STAT Protein; STAT6B Protein; STAT6C Protein; signal transducer and activator of transcription 6; interleukin-4 induced; STAT6 recombinant protein

PRODUCT SPECIFICATIONS

Host	Baculovirus-Insect Cells
Purity/Purification	>90% as determined by SDS-PAGE
Form/Format	Lyophilized from sterile 20mM Tris, 500mM NaCl, pH7.4, 20% glycerol, 0.3mM DTT. 5% trehalose, 5% mannitol and 0.01% Tween80.
Sequence	Met1-Trp84 7
Species	Human
Endotoxin	<1.0EU per ug of the protein as determined by the LAL method
Predicted N Terminal	Ser 2
Tag	C-His
Protein Construction	A DNA sequence encoding the human STAT6 isoform 1 (P42226-1)(Met 1-Trp 847) was fused with a polyhistidine tag at the C-terminus.
Reconstitution	It is recommended that sterile water (400ul) be added to the vial to prepare a stock solution of 0.25mg/mL. Concentration is measured by UV.
Preparation and Storage	Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage. Avoid repeated freeze-thaw cycles.

IMAGES



SDS-PAGE

ADDITIONAL INFORMATION

Related Product Information for STAT6 recombinant protein	Background: Signal transducer and activator of transcription 6 (STAT6) is a transcription factor that is activated by interleukin-4 (IL-4)-induced tyrosine phosphorylation and mediates most of the IL-4-induced gene expression. STAT6 plays a central role in exerting interleukin-4 (IL-4) mediated biological responses and is found to induce the expression of BCL2L1/BCL-XL, which is responsible for the anti-apoptotic activity of IL4. Transcriptional activation by STAT6 requires the interaction with coactivators like p300 and the CREB-binding protein (CBP). NF-kappaB and tyrosine-phosphorylated Stat6 can directly bind each other in vitro and in vivo, which suggests that the direct interaction between Stat6 and NF-?B may provide a basis for synergistic activation of transcription by IL-4 and activators of NF-?B.
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Product Categories/Family for STAT6 recombinant protein	Apoptosis Transcription Factors and Regulators; Jak-Stat Signaling Pathway
References	Litterst CM, et al. (2001) Transcriptional activation by STAT6 requires the direct interaction with NCoA-1. J Biol Chem. 276 (49): 45713-21. Stutz AM, et al. (1999) Functional synergism of STAT6 with either NF-kappa B or PU.1 to mediate IL-4-induced activation of IgE germline gene transcription. J Immunol. 163 (8): 4383-91. Yang J, et al. (2002) Identification of p100 as a coactivator for STAT6 that bridges STAT6 with RNA polymerase II. EMBO J. 21 (18): 4950-8.

NCBI AND UNIPROT INFORMATION

NCBI GI #	296010864
NCBI GeneID	6778
NCBI Accession #	NP_001171549.1
NCBI GenBank Nucleotide #	NM_001178078.1
UniProt Accession #	P42226; Q5FBW5; Q71UP4; A8K316; B7ZA27; F5GXI9
Molecular Weight	The recombinant human STAT6 consists of 857 amino acids and predicts a molecular mass of 95.5 kDa. It migrates as an approximately 100 kDa band in SDS-PAGE in SDS-PAGE under reducing conditions.
NCBI Official Full Name	signal transducer and activator of transcription 6 isoform 1
NCBI Official Synonym Full Names	signal transducer and activator of transcription 6, interleukin-4 induced
NCBI Official Symbol	STAT6
NCBI Official Synonym Symbols	STAT6B; STAT6C; D12S1644; IL-4-STAT
NCBI Protein Information	signal transducer and activator of transcription 6; STAT, interleukin4-induced; transcription factor IL-4 STAT
UniProt Protein Name	Signal transducer and activator of transcription 6
UniProt Gene Name	STAT6
UniProt Entry Name	STAT6_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/stat6-recombinant-protein-baculovirus-insect-cells/258016>