

Recombinant Protein Technical Manual Recombinant Human STAT6 Protein (Baculovirus, His Tag) RPES0890

Product Data:

Product SKU: RPES0890 **Size:** 100μg

Species: Human **Expression host:** Baculovirus-Insect Cells

Uniprot: P42226

Protein Information:

Molecular Mass: 95.5 kDa

AP Molecular Mass: 100 kDa

Tag: C-His

Bio-activity:

Purity: > 90 % as determined by reducing SDS-PAGE.

Endotoxin: $< 1.0 \text{ EU per } \mu\text{g}$ as determined by the LAL method.

Storage: Lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C.

Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of

reconstituted samples are stable at < -20°C for 3 months.

Shipping: This product is provided as lyophilized powder which is shipped with ice packs.

Formulation: Lyophilized from sterile 20mM Tris, 500mM NaCl, pH 7.4, 20% gly, 0.3mM DTT

Reconstitution: Please refer to the printed manual for detailed information.

Application:

Synonyms: Signal Transducer and Activator of Transcription 6; IL-4 Stat; STAT6; IL-4-

STAT;STAT6B;STAT6C

Immunogen Information:

Sequence: Met 1-Trp 847

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-?B and tyrosine-phosphorylated Stat6 can directly bind each other in vitro and in vivo, which suggest 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.