



Recombinant Protein Technical Manual
Recombinant Human STAT6 Protein (E. coli, His Tag)
RPES4954

Product Data:

Product SKU: RPES4954

Size: 10µg

Species: Human

Expression host: E. coli

Uniprot: P42226

Protein Information:

Molecular Mass: 23.9 kDa

AP Molecular Mass: 28 kDa

Tag: C-His

Bio-activity:

Purity: > 95% as determined by reducing SDS-PAGE.

Endotoxin: < 1.0 EU per µg as determined by the LAL method.

Storage: Lyophilized protein should be stored at < -20°C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7°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 a 0.2 µm filtered solution of 20mM PB, 150mM NaCl, pH7.4.

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: Ser627-Ser837

Background:

Signal Transducer and Activator of Transcription 6 (STAT6) is a member of the STAT family of transcription factors. At least seven STATs exist: STAT1, 2, 3, 4, 5a, 5b, and 6. They are responsible for an array of cellular activities including regulating growth, survival, differentiation, motility, and the immune response. STAT6 plays a central role in exerting IL4 mediated biological responses. It is found to induce the expression of BCL2L1/BCL-X(L), which is responsible for the anti-apoptotic activity of IL4. Knockout studies in mice suggested the roles of this gene in differentiation of T helper 2 (Th2) cells, expression of cell surface markers, and class switch of immunoglobulins. STAT6 has been shown to interact with EP300, CREB-binding protein, NFKB1, Nuclear receptor coactivator 1, IRF4 and SND1.