STAT1
Recombinant Human Signal Transducer and Activator of Transcription 1 His Tagged

Catalog No.	CRS602A CRS602B	**Quantity:**	25 µg 100 µg

Alternate Names: STAT91, ISGF-3

Description: Signal Transducer and Activator of Transcription 1 (STAT1) 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. STAT1 can be activated by various ligands including IFN-alpha, IFN-gamma, EGF, PDGF and IL6. STAT1 mediates the expression of a variety of genes, which is thought to be important for cell viability in response to different cell stimuli and pathogens.

Recombinant Human STAT1 was produced in *E. coli* with an N-Terminal polyhistidine tag (6xHis)

GeneID: 6772

Source: *E. coli*

Molecular Weight: 90 kDa

Formulation: Lyophilized from sterile filtered, carrier protein-free solution.

Purity: >95% by SDS-PAGE

Endotoxin Level: <0.1 ng/µg of protein

Purification: Sequential chromatography

Biological Activity: Recombinant Human STAT1 is able to be phosphorylated *in vitro*, using either immunoprecipitated JAK1 or JAK2, or whole cell extracts derived from IFN gamma-stimulated HEK 293 cells.

Optimization of the cell stimulation protocol, cell lysis procedure, and reaction conditions may be required for each specific application.

Reconstitution: **Centrifuge vial prior to opening**. Reconstitute in 10 mM Tris, pH 7.5 to a concentration of 0.2-1.0 mg/mL. The optimal concentration should be determined for each application.

Storage & Stability: Store at 2-4°C, preferably desiccated. Upon reconstitution, store in working aliquots at 2 -4°C for up to 2 weeks. For maximal stability, store the aliquots at -20°C or lower. Product is stable for 1 year from date of receipt when stored as instructed. **Avoid repeated freeze-thaw cycles**.

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