Recombinant Human STAT1 Protein

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Catalog No.: RP01981 Recombinant

Sequence Information

Species Gene ID Swiss Prot Human 6772 P42224-2

Tags NO-Tag

Synonyms

STAT1;Signal transducer and activator of transcription 1-alpha/beta; Transcription factor ISGF-3 components p91/p84

Product Information

Source Purification

E. coli ≥ 90 % as determined by SDS-PAGE.

Calculated MW Observed MW

83.04 KDa 75-100 kDa

Endotoxin

< 1 EU/µg of the protein by LAL method.

Formulation

Lyophilized from a 0.2 μ m filtered solution of PBS,2mM DTT 1mM EDTA pH 7.4.

Reconstitution

Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stablizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Contact

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Background

Signal transducer and transcription activator that mediates cellular responses to interferons (IFNs), cytokine KITLG/SCF and other cytokines and other growth factors. 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 interferon-alpha, interferon-gamma, EGF, PDGF and IL6. It is a signal transducer and transcription activator that mediates cellular responses to interferons (IFNs), cytokine KITLG/SCF and other cytokines and growth factors.

Basic Information

Description

Recombinant Human STAT1 Protein is produced by *E. coli* expression system. The target protein is expressed with sequence (Met1-Val712) of Human STAT1 (Accession #NP_644671.1) fused with no tag.

Bio-Activity

Shipping

The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

Storage

Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt.

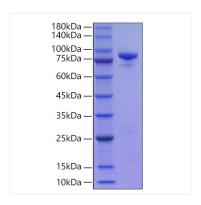
After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

Avoid repeated freeze/thaw cycles.

Operational Notes

For your safety and health, please wear a lab coat and disposable gloves for handling.

Validation Data



Recombinant Human STAT1 Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.