

Recombinant Human STAT3 Protein

Catalog No.: RP00447 **Recombinant**

Sequence Information

Species	Gene ID	Swiss Prot
Human	6774	P40763

Tags

C-His

Synonyms

ADMIO;ADMIO1;APRF;HIES;STAT3;Stat3 ;
HIES; ADMIO; ADMIO1

Product Information

Source	Purification
<i>E. coli</i>	> 95% by SDS- PAGE.

Calculated MW	Observed MW
21.8 kDa	19, 46 kDa

Endotoxin

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

Formulation

Lyophilized from a 0.2 μm filtered solution of PBS, pH7.4. Contact us for customized product form or formulation.

Reconstitution

Centrifuge the tube 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 stabilizer (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

This protein 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. This protein is activated through phosphorylation in response to various cytokines and growth factors including IFNs, EGF, IL5, IL6, HGF, LIF and BMP2. This protein mediates the expression of a variety of genes in response to cell stimuli, and thus plays a key role in many cellular processes such as cell growth and apoptosis. The small GTPase Rac1 has been shown to bind and regulate the activity of this protein. PIAS3 protein is a specific inhibitor of this protein. Mutations in this gene are associated with infantile-onset multisystem autoimmune disease and hyper-immunoglobulin E syndrome. Alternative splicing results in multiple transcript variants encoding distinct isoforms.

Basic Information

Description

Recombinant Human STAT3 Protein is produced by *E. coli* expression system. The target protein is expressed with sequence (Met1-Asn175) of human STAT3 (Accession #P40763) fused with a 6×His tag at the C-terminus.

Bio-Activity

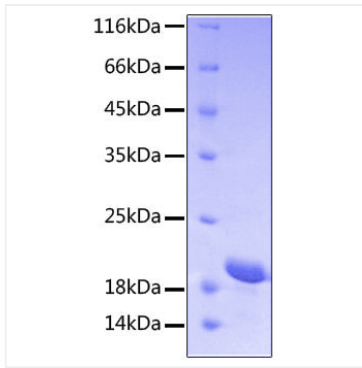
Storage

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.

Validation Data



Recombinant protein Human STAT3 was determined by SDS-PAGE under reducing conditions with Coomassie Blue, showing a band at 18 kDa.