

Product datasheet for TP720889

STAT3 (NM_003150) Human Recombinant Protein

Product data:

Product Type: Recombinant Proteins Description: Purified recombinant protein of Human signal transducer and activator of transcription 3 (acute-phase response factor) (STAT3), transcript variant 2 Species: Human **Expression Host:** E. coli Met1-Asn175 **Expression cDNA Clone** or AA Sequence: C-His Tag: Predicted MW: 21.8 kDa **Concentration:** lot specific **Purity:** >95% as determined by SDS-PAGE and Coomassie blue staining **Buffer:** Provided lyophilized from a 0.2 µm filtered solution of 20 mM Tris-HCl, 150 mM NaCl Endotoxin: Endotoxin level is $< 0.1 \text{ ng/}\mu\text{g}$ of protein ($< 1 \text{ EU/}\mu\text{g}$) **Reconstitution Method:** Always centrifuge tubes before opening. Do not mix by vortex or pipetting. Dissolve the lyophilized protein in ddH2O. It is not recommended to reconstitute a concentration less than 100 µg/ml. Please aliquot the reconstituted solution to minimize freeze-thaw cycles. Storage: Store at -80°C. Stable for at least 6 months from date of receipt under proper storage and handling Stability: conditions. NP 003141 RefSeq: Locus ID: 6774 UniProt ID: P40763 RefSeq Size: 4953 Cytogenetics: 17q21.2 **RefSeq ORF:** 2307 Synonyms: ADMIO; ADMIO1; APRF; HIES



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Summary:	The protein encoded by this gene 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. This gene also plays a role in regulating host response to viral and bacterial infections. Mutations in this gene are associated with infantile-onset multisystem autoimmune disease and hyper-immunoglobulin E syndrome. [provided by RefSeq, Aug 2020]
Protein Familie	s: Druggable Genome, Transcription Factors
Protein Pathwa	Acute myeloid leukemia, Adipocytokine signaling pathway, Chemokine signaling pathway, Jak- STAT signaling pathway, Pancreatic cancer, Pathways in cancer

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