Data Sheet (Cat.No.TMPY-07111)

TargetMol

STAT6 Protein, Human, Recombinant (Monomer, His)

General Information

Synonyms:	HIES6;D12S1644;STAT6C;STAT6B;IL-4-STAT
Protein Construction:	A DNA sequence encoding the human STAT6 isoform 1 (P42226-1) (Met1-Trp847) was fused with a polyhistidine tag at the C-terminus.
Species:	Human
Expression Host:	Baculovirus Insect Cells
Accession:	P42226-1
Molecular Weight:	95.5 kDa (predicted); 97.6 kDa (reducing contition)

QC Testing

Biological Activity:	Activity testing is in progress. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	≥ 90% as determined by SDS-PAGE. ≥ 90% as determined by SEC-HPLC.
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Lyophilized from sterile 20 mM Tris, 500 mM NaCl, 20% Glycerol, 0.3 mM DTT, pH 7.4. Please contact us for any concerns or special requirements. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization. Please refer to the specific buffer information in the hardcopy of datasheet or the lot-specific COA.

Preparation and Storage

Reconstitution:

Please refer to the lot-specific COA.

Stability & Storage:

It is recommended to store recombinant proteins at -20°C to -80°C for future use. Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

Signal transducer and activator of transcription 6 (STAT6) is a transcription factor that is activated by interleukin-4 (IL-4)-induced tyrosine phosphorylation and mediates most of the IL-4-induced gene expression. STAT6 plays a central role in exerting interleukin-4 (IL-4) mediated biological responses and is found to induce the expression of BCL2L1/BCL-XL, which is responsible for the anti-apoptotic activity of IL4. Transcriptional activation by STAT6

requires the interaction with coactivators like p300 and the CREB-binding protein (CBP). NF-κB and tyrosine-phosphorylated Stat6 can directly bind each other in vitro and in vivo, which suggests that the direct interaction between Stat6 and NF-κB may provide a basis for synergistic activation of transcription by IL-4 and activators of NF-κB.

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