

STAT4 Protein, Human, Recombinant (His)

General Information

Synonyms:	signal transducer and activator of transcription 4;SLEB11
Protein Construction:	A DNA sequence encoding the human STAT4 (Q14765) (Met 1-Glu 748) was expressed, with a polyhistidine tag at the N-terminus. Predicted N terminal: Met
Species:	Human
Expression Host:	Baculovirus Insect Cells
Accession:	Q14765
Molecular Weight:	87.75 kDa (predicted and reducing conditions); 190-220 kDa (SEC-MALS)

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:	> 95% as determined by Bis-Tris PAGE; > 90% as determined by HPLC
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Supplied as sterile 20 mM Tris, 500 mM NaCl, pH 7.4, 20% glycerol, 0.5 mM DTT.

Preparation and Storage

Reconstitution:

A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

Stability & Storage:

It is recommended to store the product under sterile conditions at -20°C to -80°C. Samples are stable for up to 12 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

Proteins are shipped with blue ice.

Protein Background

High expression of STAT4 in gastric cancer predicted a better clinical outcome. STAT4 might be a useful biomarker to identify patients at high risk of recurrence after gastrectomy. Genetic variants in the transcription factor STAT4 are associated with increased susceptibility to systemic lupus erythematosus (SLE) and a more severe disease phenotype.

Reference

Thierfelder WE, et al. (1996) Requirement for Stat4 in interleukin-12-mediated responses of natural killer and T cells. *Nature*. 382(6587):171-4.

Hye-Soon L, et al. (2007) Association of STAT4 with Rheumatoid Arthritis in the Korean Population. *Mol Med*. 13(9-10): 455-60.

Chitnis T, et al. (2001) Effect of targeted disruption of STAT4 and STAT6 on the induction of experimental autoimmune encephalomyelitis. *J Clin Invest*. 108(5): 739-47.

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