# Data Sheet (Cat.No.TMPY-02581)

TargetMol

## STAT4 Protein, Human, Recombinant (His)

### General Information

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|---|---|
| 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: | 88 kDa (predicted); 70 kDa (reducing conditions) |

### QC Testing

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|---|---|
| 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: | > 85 % as determined by SDS-PAGE |
| 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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