

## Product datasheet for **TP301075**

### STAT1 (NM\_139266) Human Recombinant Protein

#### Product data:

**Product Type:** Recombinant Proteins  
**Description:** Recombinant protein of human signal transducer and activator of transcription 1, 91kDa (STAT1), transcript variant beta, 20 µg  
**Species:** Human  
**Expression Host:** HEK293T  
**Expression cDNA Clone or AA Sequence:** >RC201075 protein sequence  
**Red**=Cloning site **Green**=Tags(s)

MSQWYELQQLDSKFLEQVHQLYDDSFPMERQYLAQWLEKQDWEHAANDVSFATIRFHDLLSQLDDQYSR  
FSLENNFLLQHNIRKSKRNLQDNFQEDPIQMSMIISCLKEERKILENAQRFNQAQSGNIQSTVMLDKQK  
ELDSKVRNVKDKVMCIEHEIKSLEDLQDEYDFKCKTLQNREHETNGVAKSDQKQEQLLLKMYLMLDNKR  
KEVVKIIELLNVTELTQNALINDELVEWKRRQQSACIGGPPNACLDQLQNWFTIVAESLQQVRQQLKLL  
EELEQKYTYEHPITKNKQVLWDRTFSLFQQLIQSSFVVERQPCMPHPQRPLVLTGTGVQFTVLRLLVK  
LQELNYNLKVKVLFDKDVNERNTVKGFRKFNILGHTTKVMNMEESTNGSLAAEFRHLQLKEQKNAGTRTN  
EGPLIVTEELHLSLQFETQLCQPLVIDLETTSLPVVVISNVSQPSGWASILWYNMLVAEPRNLSFFLTP  
PCARWAQLSEVLSWQFSSVTKRGLNVDQLNMLGEKLLGPNASPDGLIPWTRFCKENINDKNFPFWLWIES  
ILELIKHLPLWNDGCMGFISKERERALLKDQQPGTFLRFSESSREGAITFTWVERSQNGGEPDFHA  
VEPYTKKELSAVTFPDIIRNYKVMAAENIPENPLKYLPNIDKDHAFGKYSRPKEAPEPEMELDGPKGKG  
YIKTELISVSEV

**TRTRPLEQKLISEEDLAANDILDYKDDDDKV**

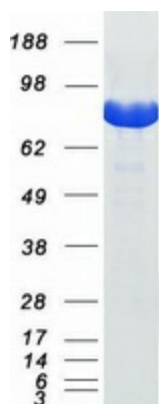
**Tag:** C-Myc/DDK  
**Predicted MW:** 82.9 kDa  
**Concentration:** >0.05 µg/µL as determined by microplate BCA method  
**Purity:** > 80% as determined by SDS-PAGE and Coomassie blue staining  
**Buffer:** 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol  
**Preparation:** Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.  
**Note:** For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.



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<b>Storage:</b>	Store at -80°C.
<b>Stability:</b>	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
<b>RefSeq:</b>	<a href="#">NP_644671</a>
<b>Locus ID:</b>	6772
<b>UniProt ID:</b>	<a href="#">P42224</a>
<b>RefSeq Size:</b>	2798
<b>Cytogenetics:</b>	2q32.2
<b>RefSeq ORF:</b>	2136
<b>Synonyms:</b>	CANDF7; IMD31A; IMD31B; IMD31C; ISGF-3; STAT91
<b>Summary:</b>	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. The protein encoded by this gene can be activated by various ligands including interferon-alpha, interferon-gamma, EGF, PDGF and IL6. This protein mediates the expression of a variety of genes, which is thought to be important for cell viability in response to different cell stimuli and pathogens. The protein plays an important role in immune responses to viral, fungal and mycobacterial pathogens. Mutations in this gene are associated with Immunodeficiency 31B, 31A, and 31C. [provided by RefSeq, Jun 2020]
<b>Protein Families:</b>	Druggable Genome, Transcription Factors
<b>Protein Pathways:</b>	Chemokine signaling pathway, Jak-STAT signaling pathway, Pancreatic cancer, Pathways in cancer, Toll-like receptor signaling pathway

### Product images:



Coomassie blue staining of purified STAT1 protein (Cat# TP301075). The protein was produced from HEK293T cells transfected with STAT1 cDNA clone (Cat# [RC201075]) using MegaTran 2.0 (Cat# [TT210002]).