

## Product datasheet for **TP305753M**

### STAT5A (NM\_003152) Human Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human signal transducer and activator of transcription 5A (STAT5A), 100 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC205753 representing NM_003152 Red=Cloning site Green=Tags(s)

MAGWIQAQQLQGDALRQMQLVYGQHFPIEVRHYLAQWIESQPWDAIDLDPQDRAQATQLLEGLVQELQK  
KAEHQVGEDGFLLKIKLGHYATQLQKTYDRCPELVRCIRHILYNEQRLVREANNCSSPAGILVDAMSQK  
HLQINQTFEELRLVTQDTENELKKLQQTQEYFIIQYQESLRIQAQFAQLAQLSPQERLSRETALQKQVS  
LEAWLQREAQTLQQRVELAEKHQKTLQLLRKQQTIIIDDELIQWKRRQQLAGNGGPPPEGLDVLQSWCE  
KLAEIWQNRQQIRRAEHLCCQLPIPGPVEEMLAEVNATITDIISALVTSTFIIKQPPQVLKTQTKFAA  
TVRLLVGGKLNVMNPPQVKATIIEQQAKSLLKNENTRNECSGEILNCCVMEYHQATGTLSAHFRNMS  
LKRIKRADRRGAESVTEEKFTVLFESQFSVGSNELVFQVKTLSPVWVIVHGSQDHNATATVLWDNAFAE  
PGRVPFAVPDKVLWPQLCEALNMKFKAEVQSNRGLTKENLVFLAQKLFNNSSSHLEDYSGLSVSWSQFNR  
ENLPGWNYTFWQWFDGVMVLELKKHHKPHWNDGAILGFVNKQQAHDLLINKPDGTFLLRFSDSEIGGITIA  
WKFDSPERNLWNLKPFTRDFSIKSLADRLGDLSYLIYVFPDRPKDEVFSKYTPVLAKAVDGYVVKPQIK  
QVVPEFVNASADAGGSSATYMDQAPSPAVCPQAPYNMYPQNPDPHVLVDQDGEFDLDETMDVARHVEELLRR  
PMDSLDSRLSPPAGLFTSARGSL

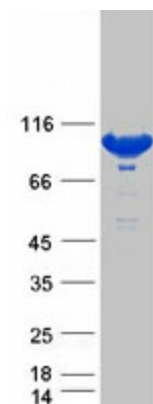
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Predicted MW:	90.5 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.



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<b>Note:</b>	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
<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_003143</a>
<b>Locus ID:</b>	6776
<b>UniProt ID:</b>	<a href="#">P42229</a> , <a href="#">A0A384N5W4</a> , <a href="#">A8K6I5</a> , <a href="#">Q59GY7</a>
<b>RefSeq Size:</b>	4298
<b>Cytogenetics:</b>	17q21.2
<b>RefSeq ORF:</b>	2382
<b>Synonyms:</b>	MGF; STAT5
<b>Summary:</b>	The protein encoded by this gene is a member of the STAT family of transcription factors. 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 by, and mediates the responses of many cell ligands, such as IL2, IL3, IL7 GM-CSF, erythropoietin, thrombopoietin, and different growth hormones. Activation of this protein in myeloma and lymphoma associated with a TEL/JAK2 gene fusion is independent of cell stimulus and has been shown to be essential for tumorigenesis. The mouse counterpart of this gene is found to induce the expression of BCL2L1/BCL-X(L), which suggests the antiapoptotic function of this gene in cells. Alternatively spliced transcript variants have been found for this gene. [provided by RefSeq, Dec 2013]
<b>Protein Families:</b>	Druggable Genome, ES Cell Differentiation/IPS, Stem cell relevant signaling - DSL/Notch pathway, Stem cell relevant signaling - JAK/STAT signaling pathway, Transcription Factors
<b>Protein Pathways:</b>	Acute myeloid leukemia, Chronic myeloid leukemia, ErbB signaling pathway, Jak-STAT signaling pathway, Pathways in cancer

**Product images:**

Coomassie blue staining of purified STAT5A protein (Cat# [TP305753]). The protein was produced from HEK293T cells transfected with STAT5A cDNA clone (Cat# [RC205753]) using MegaTran 2.0 (Cat# [TT210002]).