

## Product datasheet for PH305753

### STAT5A (NM\_003152) Human Mass Spec Standard

#### Product data:

Product Type:	Mass Spec Standards
Description:	STAT5A MS Standard C13 and N15-labeled recombinant protein (NP_003143)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC205753
Predicted MW:	90.5 kDa
Protein Sequence:	>RC205753 representing NM_003152 Red=Cloning site Green=Tags(s)

MAGWIIQAQQLQGDALRQMQVLYGQHFPFIEVRHYLAQWIESQPWDAIDLDPDRAQATQLLEGLVQELQK  
KAEHQVGEDGFLKIKLGHYATQLQKTYDRCPLELVRCIRHILYNEQRLVREANNCS SPAGILVDAMSQK  
HLQINQTFEELRLVTQDTENELKKLQQTQEYFIIQYQESLRIQAQFAQLAQLSPQERLSRETALQQKQVS  
LEAWLQREAQTLQYRVELAEKHQKTLQLLRKQQTIIIDDELIQWKRRLQLAGNGGPPGEGSLDVLQSWCE  
KLAETIIWQNRQQIRRAEHL CQQLPPIGPVEEMLAEVNATITDIIISALVTSTFIIIEKQPPQVLKTQTKFAA  
TVRLLVGGKLVNVMNPPQVKATIIIEQQAKSLLKNENTRNECSGEILNCCVMEYHQATGTL SAHFRNMS  
LKRIKRRDRGAESVTEEKFTVLFESQF SVGSNELVFQVKTLSLPVVVI VHGSQDHNATATVLWDNAFAE  
PGRVPFAVPDKVLWPQLCEALNMKFKAEVQSNRGLTKENLVFLAQKLFNNSSSHLEDYSGLSVSWSQFNR  
ENLPGWNYTFWQWFDGVMVLLKHHKPHWNDGAILGFVNKQQAHDLLINKPDGTFLLRFSDSEIGGITIA  
WKFDSPERNLWNLKPFTRDFSI RSLADRLGDSL IYVFPDRPKDEVFSKYYPVLAKAVDGYVQPKIK  
QVYPEFVNASADAGGSSATYMDQAPSPAVCPQAPYNYMYPQNPDPHVLDQDGEFDLDETMDVARHVEELLRR  
PMDSLDSRLSPPAGLFTSARGSL S

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>4</sub> ]-L-Arginine and [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>2</sub> ]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	<u><a href="#">NP_003143</a></u>



[View online »](#)

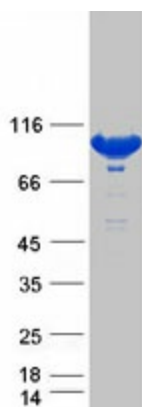
RefSeq Size:	4298
RefSeq ORF:	2382
Synonyms:	MGF; STAT5
Locus ID:	6776
UniProt ID:	<a href="#">P42229</a> , <a href="#">A0A384N5W4</a> , <a href="#">A8K6I5</a> , <a href="#">Q59GY7</a>
Cytogenetics:	17q21.2

**Summary:** 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]

**Protein Families:** Druggable Genome, ES Cell Differentiation/IPS, Stem cell relevant signaling - DSL/Notch pathway, Stem cell relevant signaling - JAK/STAT signaling pathway, Transcription Factors

**Protein Pathways:** 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]).