

Product datasheet for PH301075

STAT1 (NM_139266) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	STAT1 MS Standard C13 and N15-labeled recombinant protein (NP_644671)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC201075
Predicted MW:	83 kDa
Protein Sequence:	>RC201075 protein sequence Red=Cloning site Green=Tags(s)

MSQWYELQQLDKSFLEQVHQLYDDSFPMERQYLAQWLEKQDWEHAANDVSFATIRFHDLLSQLDDQYSR
FSLENNFLLQHNIRKSKRNLQDNFQEDPIQMSMIYISCLKEERKILENAQRFNQAQSGNIQSTVMLDKQK
ELDSKVRNVKDKVMCIEHEIKSLEDLQDEYDFKCKTLQNRHETNGVAKSDQKQEQLLLKMYLMLDNKR
KEVVHKIIELLNVTETQNALINDELVEWKRRQQSACIGGPPNAQLDQLQNWFTIVAESLQQVRRQLKLL
EELQKYTYEHDPITKNKQVLWDRFSLFQQLIQSSFVVERQPCMPHQPRLVLKTVGVQFTVKLRLLVK
LQELNYNLKVKVLFDKDVNERNTVKGFRKFNILGTHTKVMNMEESTNGSLAAEFRHLQLKEQKNAGTRTN
EGPLIVTEELHLSLQFETQLCQPLVIDLETTSLPVVVISNVSQLPSGWASILWYNMLVAEPRNLSFFLTP
PCARWAQLSEVLSWQFSSVTKRGLNVDQLNMLGEKLLGPNASPDGLIPWTRFCKENINDKNPFVWLWIES
ILELIKHLPLWNGCIMGFISKERERALLKDQPGTFLLRFSESSREGAITFTWVERSQNGGEPDFHA
VEPYTKKELSAVTFPDIIRNYKVMAAENIPENPLKYLPNIDKDHAFGKYYSRPEAPEMELDGPKGKG
YIKTELISVSEV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

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- 13C6, 15N4]-L-Arginine and [U- 13C6, 15N2]-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:	NP_644671



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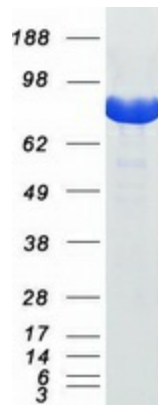
RefSeq Size:	2798
RefSeq ORF:	2136
Synonyms:	CANDF7; IMD31A; IMD31B; IMD31C; ISGF-3; STAT91
Locus ID:	6772
UniProt ID:	P42224
Cytogenetics:	2q32.2

Summary: 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]

Protein Families: Druggable Genome, Transcription Factors

Protein Pathways: 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]).