

Product datasheet for PH301196

SUPT5H (NM_003169) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	SUPT5H MS Standard C13 and N15-labeled recombinant protein (NP_003160)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC201196
Predicted MW:	120.8 kDa
Protein Sequence:	>RC201196 representing NM_003169 Red=Cloning site Green=Tags(s)

MSDSESNFSEEDSERSSDGEEAEVDEERRSAAGSEKEEPEDEEEEEEEYDEEEEEEDDRPPKPK
RHGGFILDADVDEYEDQWEDGAEDILEKEEIEASNIDNVLDEDRSGARRLQNLWRDQREEELGEY
YMKKYAKSSVGETVYGGSDLESDITQQQLPGVKDNLWTVKCKIGEERATAISLMRKF IAYQFTDTP
QIKSVVAPEHVKGYYVEAYKQTHVKQAIIEGVGNLRLGYWNQMVPIKEMTDVLKVVKEVANLKP
KSWVR LKRGYIKDDIAQVDYVEPSQNTISLKMIPRIDYDRIKARMSLKDFAKRKKFKRPPQRL
FDAEKIRSLGG DVASDGF LIFEGNRYSRKGF LFKSFAMSAVITEGVKPTLSELEKFEDQ
PEGIDLEVVTSTGKEREHNF QPGDNVEVCEGELINLQGKILSVDGNKITIMPKHEDLKD
MLEFPAQELRKYFKMGDHWKVIAGRFEQDGTG LIVRVEENFVILFSDLTMHELKVL
PRDLQLCSETASGVDVGGQHEWGELVQLDPQTVGVIVRLERETFQV LNMYGKVV
TVRHQAVTRKKNRFAVALDSEQNNIHVKDIVKVIDGPHSGREGEIRHLFRSFAFLHCK
KLV ENGGMFVCKTRHLVLAGGSKPRDVTNFTVGGFAPMSPRISSPMHPSAGGQ
RGGFGSPGGGSGGMSRGRGRD NELIGQTVRISQGPYKGYIGVVKDATESTARVELHST
CQTSVDRQRLTTVGSRRPGGMTSTYGRTPM YGSQTPMYGSGSRTPMYGSQTP
LQDGSRTPHYGSQTPLDGSRTPAQSGAWDPNNPNTPSRAEEEEYAF DDEPTSPQAY
GGTPNPQTPGYDPSPQVNPQYNPQTPGTPAMYNTDQFSPYAAPSPQGSYQPS
PSPQS YHQVAPSPAGYQNTHSPASYHTPSPMAYQASPSVPGYSPMTPGAPSPGGY
NPHTPGSGIEQNSSDWV TTDIQVKVRDYLDTQVVGQTVIRSVTGGMCSVYLK
DSEKVVSI SSEHLEPITPTKNNKVKVILGEDRE ATGVLLSIDGEDGIVRMDL
DEQLKILNLRFLGKLLLEA

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- ¹³ C ₆ , ¹⁵ N ₄]-L-Arginine and [U- ¹³ C ₆ , ¹⁵ N ₂]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3

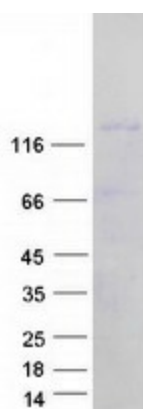


[View online »](#)

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_003160
RefSeq Size:	3762
RefSeq ORF:	3261
Synonyms:	SPT5; SPT5H; Tat-CT1
Locus ID:	6829
UniProt ID:	O00267
Cytogenetics:	19q13.2
Summary:	<p>Component of the DRB sensitivity-inducing factor complex (DSIF complex), which regulates mRNA processing and transcription elongation by RNA polymerase II. DSIF positively regulates mRNA capping by stimulating the mRNA guanylyltransferase activity of RNGTT/CAP1A. DSIF also acts cooperatively with the negative elongation factor complex (NELF complex) to enhance transcriptional pausing at sites proximal to the promoter. Transcriptional pausing may facilitate the assembly of an elongation competent RNA polymerase II complex. DSIF and NELF promote pausing by inhibition of the transcription elongation factor TFIS/S-II. TFIS/S-II binds to RNA polymerase II at transcription pause sites and stimulates the weak intrinsic nuclease activity of the enzyme. Cleavage of blocked transcripts by RNA polymerase II promotes the resumption of transcription from the new 3' terminus and may allow repeated attempts at transcription through natural pause sites. DSIF can also positively regulate transcriptional elongation and is required for the efficient activation of transcriptional elongation by the HIV-1 nuclear transcriptional activator, Tat. DSIF acts to suppress transcriptional pausing in transcripts derived from the HIV-1 LTR and blocks premature release of HIV-1 transcripts at terminator sequences.[UniProtKB/Swiss-Prot Function]</p>

Protein Families: Transcription Factors

Product images:



Coomassie blue staining of purified SUPT5H protein (Cat# [TP301196]). The protein was produced from HEK293T cells transfected with SUPT5H cDNA clone (Cat# [RC201196]) using MegaTran 2.0 (Cat# [TT210002]).