

Recombinant Human SUPT5H Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. SUPT5H-3200H Lot. No. (See product label)

SPECIFICATION

Product Overview

SUPT5H MS Standard C13 and N15-labeled recombinant protein (NP_001124296) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.

Species

Human

Source

HEK293

Description

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 TFIIS/S-II. TFIIS/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.

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Molecular Mass	120.8 kDa
AA Sequence	MSDSEDSNFSEEEEDSERSSDGEEAEVDEERRSAAGSEKEEEPEDEEEEEEEEEEEYD EEEEEEEDDDRPPKKPRHGGFILDEADVDEYEDEDQWEDGAEDILEKEEIEASNIDN VVLDEDRSGARRLQNLWRDQREEELGEYYMKKYAKSSVGETVYGGSDLSDDITQ QQLLPGVKDPNLWTVKCKIGEERATAISLMRKFIAYQFTDTPLQIKSVVAPEHVKGYI YVEAYKQTHVKQAIEGVGNLRLGYWNQQMVPIKEMTDVLKVVKEVANLKP KSWVRL KRGYKDDIAQVDYVEPSQNTISLKMIPRIDYDRIKARMSLKDWFAKRKKFKRPPQRL FDAEKIRSLGGDVASDGDFLIFEGNRYSRKGFLFKSFAMSAVITEGVKPTLSELEKFE DQPEGIDLEVVTSTGKEREHNFQPGDNVEVCEGELINLQGKILSVDGNKITIMPKHE DLKDMLEFPAQELRKYFKMGDHVKVIAGRFEFGDTGLIVRVEENFVILFSDLTMHCLKV LPRDLQLCSETASGVDVGGQHEWGELVQLDPQTVGVIVRLERETFQVLNMYGKVV TVRHQAVTRKKDNRFVALDSEQNNIHVKDIVKVIDGPHSGREGEIRHLFRSFAFLH CKKLVENGGMFVCKTRHLVLAGGSKPRDVTNFTVGGFAPMSPRISSPMHPSAGGQ RGGFGSPGGGSGGMSRGRGRRDNELIGQTVRISQGPYKGYIGVVKDATESTARVE LHSTCQTISVDRQRLTTVGSRPPGGMTSTYGRTPMYGSQTPMYGSGSRTPMYGS QTPLQDGSRTPHYGSQTPLHDGSRTPAQSGAWDPNNPNTPSRAEEYEAFFDDEP TPSPQAYGGTPNPQTPGYDPSPQVNPQYNPQTPGTPAMYNTDQFSPYAAPSPQ GSYQPSPPSPQSYHQVAPSPAGYQNTHSPASYHPTSPMAYQASPPSPVGYSPMT PGAPSPGGYNPHTPGSGIEQNSSDWVTTDIQVKVRDITYLDTQVVGQTVIRSVTGG MCSVYKLDSEKVVSSISSEHLEPITPTKNNKVKVILGEDREATGVLLSIDGEDGIVRMDL DEQLKILNLRFLGKLLLEATRTRPLEQKLISEEDLAANDILDYKDDDDKV
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 3 months from receipt of products under proper storage and handling conditions.
Storage	Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name SUPT5H SPT5 homolog, DSIF elongation factor subunit [Homo sapiens (human)]

Official Symbol SUPT5H

Synonyms SUPT5H; suppressor of Ty 5 homolog (S. cerevisiae); suppressor of Ty (S.cerevisiae) 5 homolog; transcription elongation factor SPT5; FLJ34157; SPT5; SPT5H; hSPT5; DSIF p160; DSIF large subunit; Tat-cotransactivator 1 protein; DRB sensitivity-inducing factor large subunit; DRB sensitivity-inducing factor 160 kDa subunit; Tat-CT1;

Gene ID 6829

mRNA Refseq NM_001130824

Protein Refseq NP_001124296

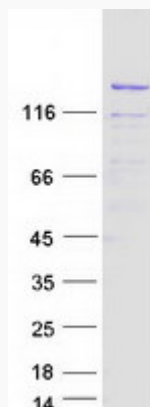
MIM 602102

UniProt ID O00267

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SDS-PAGE

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