

Recombinant Mouse Supt4a Protein, Myc/DDK-tagged

Cat. No. Supt4a-6227M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length suppressor of Ty 4A (Supt4a), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
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.
Molecular Mass	13.2 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 12 months from the date of receipt of the product under proper storage and

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

handling conditions. Avoid repeated freeze-thaw cycles.

Storage Store at -80 centigrade after receiving vials.

Concentration >50 µg/mL as determined by microplate BCA method

Storage Buffer 25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

GENE INFORMATION

Gene Name Supt4a SPT4A, DSIF elongation factor subunit [*Mus musculus* (house mouse)]

Official Symbol Supt4a

Synonyms Supt4a; SPT4A, DSIF elongation factor subunit; Supt; Supt4; Supt4h; Supt4h1; AL022777; Supt4h1a; transcription elongation factor SPT4-A; DRB sensitivity-inducing factor small subunit 1; DSIF small subunit 1; Transcription elongation factor SPT4-A; suppressor of Ty 4 homolog 1; suppressor of Ty 4A; transcription elongation factor SPT4 1

Gene ID 20922

mRNA Refseq NM_009296

Protein Refseq NP_033322

UniProt ID P63271

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