

Recombinant Mouse SrpK2 Protein, Myc/DDK-tagged

Cat. No. SrpK2-6131M Lot. No. (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length serine/arginine-rich protein specific kinase 2 (SrpK2), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	Serine/arginine-rich protein-specific kinase which specifically phosphorylates its substrates at serine residues located in regions rich in arginine/serine dipeptides, known as RS domains and is involved in the phosphorylation of SR splicing factors and the regulation of splicing. Promotes neuronal apoptosis by up-regulating cyclin-D1 (CCND1) expression. This is done by the phosphorylation of SRSF2, leading to the suppression of p53/TP53 phosphorylation thereby relieving the repressive effect of p53/TP53 on cyclin-D1 (CCND1) expression. Phosphorylates ACIN1, and redistributes it from the nuclear speckles to the nucleoplasm, resulting in cyclin A1 but not cyclin A2 up-regulation. Plays an essential role in spliceosomal B complex formation via the phosphorylation of DDX23/PRP28. Probably by phosphorylating DDX23, leads to the suppression of incorrect R-loops formed during transcription; R-loops are composed of a DNA:RNA hybrid and the associated non-template single-stranded DNA.
Molecular Mass	76.9 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining

 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

Stability	Stable for 12 months from the date of receipt of the product under proper storage and 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	Srpk2 serine/arginine-rich protein specific kinase 2 [Mus musculus (house mouse)]
Official Symbol	Srpk2
Synonyms	SRPK2; serine/arginine-rich protein specific kinase 2; SRSF protein kinase 2; SFRS protein kinase 2; WW domain binding protein 6; SR-protein-specific kinase 2; serine/threonine-protein kinase SRPK2; serine/arginine-rich protein-specific kinase 2; Wbp6; mSRPK2; AW226533; AW492537; AW547358
Gene ID	20817
mRNA Refseq	NM_009274
Protein Refseq	NP_033300
UniProt ID	O54781

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