

## Product datasheet for PH305134

### SRPK2 (NM\_182691) Human Mass Spec Standard

#### Product data:

Product Type:	Mass Spec Standards
Description:	SRPK2 MS Standard C13 and N15-labeled recombinant protein (NP_872633)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC205134
Predicted MW:	77.5 kDa
Protein Sequence:	>RC205134 protein sequence Red=Cloning site Green=Tags(s)

MSVNSEKSSSSERPEPQQKAPLVPPPPPPPPPPPLPDPTPEPEEEIILGSDDEEQEDPADYCKGGYHP  
VKIGDLFNGRYHVIRKLGWGHFSTVWLCWDMQGKRFVAMKVVKSAQHYTETALDEIKLLKCVRESDPSPD  
NKDMVVQLIDDFKISGMNGIHVCMVFEVLGHHLLKWIISNYQGLPVRCVKSIIRQVLQGLDYLHCKKI  
IHTDIKPENILMCVDDAYVRRMAAEATEWQKAGAPPPSGSAVSTAPQQKPIGKISKNNKKLKKKQKRQA  
ELLEKRLQEIEELEREAEERKIIIEENITSAAPSNDQDGEYCPVKKLTTGLEEAAEAETAKDNGEAEDQEE  
KEDAEKENIEKDEDDVDQELANIDPTWIESPKTNGHIENGPFSLEQQLDDEDDDEEDCPNPEEYNLDEPN  
AESDYTYSSSYEQFNGELPNGRHKIPESQFPEFSTSLFSGSLEPVACGSVLSEGSPLTEQEESPSHDRS  
RTVSASSTGDLPAKTRAADLLVNPLDPRNADKIRVKIADLGNACVWHKHFTEDIQTRQYRSIEVLIGAG  
YSTPADIWSTACMAFELATGDYLFEPHSGEDYSRDEDHIAHIEELLGSI PRHFALSGKYSREFFNRRGEL  
RHITKLPWSLFDVLVEKYGWPHEDAAQFTDFLIPMLEMVPEKRASAGECLRHPWLNS

SGPTRTRPLEQKLI 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- 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:	<a href="#">NP_872633</a>
RefSeq Size:	3780



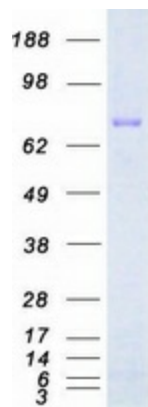
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RefSeq ORF:	2064
Synonyms:	SFRSK2
Locus ID:	6733
UniProt ID:	<a href="#">P78362</a> , <a href="#">A0A024R704</a>
Cytogenetics:	7q22.3

**Summary:** 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. Can mediate hepatitis B virus (HBV) core protein phosphorylation. Plays a negative role in the regulation of HBV replication through a mechanism not involving the phosphorylation of the core protein but by reducing the packaging efficiency of the pregenomic RNA (pgRNA) without affecting the formation of the viral core particles.[UniProtKB/Swiss-Prot Function]

**Protein Families:** Druggable Genome, Protein Kinase

### Product images:



Coomassie blue staining of purified SRPK2 protein (Cat# [TP305134]). The protein was produced from HEK293T cells transfected with SRPK2 cDNA clone (Cat# [RC205134]) using MegaTran 2.0 (Cat# [TT210002]).