

Datasheet for ABIN7562562 SRPK1 Protein (AA 1-648) (His tag)



Overview

Quantity:	1 mg
Target:	SRPK1
Protein Characteristics:	AA 1-648
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This SRPK1 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant Srpk1 Protein expressed in mammalian cells.	
Sequence:	MERKVLALQA RKKRTKAKKD KAQRKPETQH RGSAPHSESD IPEQEEEILG SDDDEQEDPN	
	DYCKGGYHLV KIGDLFNGRY HVIRKLGWGH FSTVWLSWDI QGKKFVAMKV VKSAEHYTET	
	ALDEIRLLKS VRNSDPNDPN GEMVVQLLDD FKISGVNGTH ICMVFEVLGH HLLKWIIKSN	
	YQGLPLPCVK KIIQQVLQGL DYLHTKCRII HTDIKPENIL LSVNEQYIRR LAAEATEWQR	
	SGAPPPSGSA VSTAPQPKPA DKMSKNKKKK LKKKQKRQAE LLEKRMQEIE EMEKESGPGQ	
	KRPNKQEESE SPVDRPLTEN PPNKMTQEKL EESNSIGQDQ TLTERGGEGG APEINCNGVI	
	GVVNYPENSN NETLRHKEDL HNANDCDVHT LKQEPSFLNS SNGDSSPSQD TDSCTPTASE	
	TMVCQSSAEQ SLTRQDITQL EESIRADTPS GDEQEPNGAL DSKGKFSAGN FLINPLEPKN	
	AEKLQVKIAD LGNACWVHKH FTEDIQTRQY RSLEVLIGSG YNTPADIWST ACMAFELATG	
	DYLFEPHSGE DYTRDEDHIA LIIELLGKVP RKLIVAGKYS KEFFTKKGDL KHITKLKPWG	
	LLEVLVEKYE WPQEEAAGFT DFLLPMLELM PEKRATAAEC LRHPWLNS Sequence without tag.	
	The proposed Purification-Tag is based on experiences with the expression system, a	

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 1/4 | Product datasheet for ABIN7562562 | 03/29/2025 | Copyright antibodies-online. All rights reserved.

	different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.
Specificity:	If you are looking for a specific domain and are interested in a partial protein or a different isoform, please contact us regarding an individual offer.
Characteristics:	 Key Benefits: Made to order protein - from design to production - by highly experienced protein experts. Protein expressed in mammalian cells and purified in one-step affinity chromatography The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins. State-of-the-art algorithm used for plasmid design (Gene synthesis). This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein.
	If you are not interested in a full length protein, please contact us for individual protein fragments.
	The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.
Purity:	> 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, Western Blot and analytical SEC (HPLC)
Grade:	custom-made

Target Details

Target:	SRPK1	
Alternative Name:	Srpk1 (SRPK1 Products)	
Background:	SRSF protein kinase 1 (EC 2.7.11.1) (SFRS protein kinase 1) (Serine/arginine-rich protein-	
	specific kinase 1) (SR-protein-specific kinase 1),FUNCTION: 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. Plays a central role in the regulatory	
	network for splicing, controlling the intranuclear distribution of splicing factors in interphase	
	cells and the reorganization of nuclear speckles during mitosis. Can influence additional steps	
	of mRNA maturation, as well as other cellular activities, such as chromatin reorganization in	
	somatic and sperm cells and cell cycle progression. Phosphorylates SFRS2, ZRSR2, LBR and	

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 2/4 | Product datasheet for ABIN7562562 | 03/29/2025 | Copyright antibodies-online. All rights reserved. PRM1. Phosphorylates SRSF1 using a directional (C-terminal to N-terminal) and a dual-track mechanism incorporating both processive phosphorylation (in which the kinase stays attached to the substrate after each round of phosphorylation) and distributive phosphorylation steps (in which the kinase and substrate dissociate after each phosphorylation event). The RS domain of SRSF1 binds first to a docking groove in the large lobe of the kinase domain of SRPK1. This induces certain structural changes in SRPK1 and/or RRM2 domain of SRSF1, allowing RRM2 to bind the kinase and initiate phosphorylation. The cycles continue for several phosphorylation steps in a processive manner (steps 1-8) until the last few phosphorylation steps (approximately steps 9-12). During that time, a mechanical stress induces the unfolding of the beta-4 motif in RRM2, which then docks at the docking groove of SRPK1. This also signals RRM2 to begin to dissociate, which facilitates SRSF1 dissociation after phosphorylation is completed. Can mediate hepatitis B virus (HBV) core protein phosphorylation. It 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. Can induce splicing of exon 10 in MAPT/TAU (By similarity). {ECO:0000250, ECO:0000269|PubMed:10390541, ECO:0000269|PubMed:9446799}.

Molecular Weight:	73.1 kDa
UniProt:	070551
Pathways:	Toll-Like Receptors Cascades

Application Details

Application Notes:	We expect the protein to work for functional studies. As the protein has not been tested for	
	functional studies yet we cannot offer a guarantee though.	
Restrictions:	For Research Use only	

Handling

Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 3/4 | Product datasheet for ABIN7562562 | 03/29/2025 | Copyright antibodies-online. All rights reserved.

1.1	(1:
Н	land	ling
		3

Expiry Date:

12 months

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 4/4 | Product datasheet for ABIN7562562 | 03/29/2025 | Copyright antibodies-online. All rights reserved.