Datasheet for ABIN7555628

SRPK2 Protein (AA 1-688) (His tag)

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Overview

Quantity:	1 mg
Target:	SRPK2
Protein Characteristics:	AA 1-688
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This SRPK2 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant SRPK2 Protein expressed in mammalian cells.
Sequence:	MSVNSEKSSS SERPEPQQKA PLVPPPPPPP PPPPPPLPDP TPPEPEEEIL GSDDEEQEDP ADYCKGGYHP VKIGDLFNGR YHVIRKLGWG HFSTVWLCWD MQGKRFVAMK VVKSAQHYTE TALDEIKLLK CVRESDPSDP NKDMVVQLID DFKISGMNGI HVCMVFEVLG HHLLKWIIKS NYQGLPVRCV KSIIRQVLQG LDYLHSKCKI IHTDIKPENI LMCVDDAYVR RMAAEATEWQ KAGAPPPSGS AVSTAPQQKP IGKISKNKKK KLKKKQKRQA ELLEKRLQEI EELEREAERK IIEENITSAA PSNDQDGEYC PEVKLKTTGL EEAAEAETAK DNGEAEDQEE KEDAEKENIE KDEDDVDQEL ANIDPTWIES PKTNGHIENG PFSLEQQLDD EDDDEEDCPN PEEYNLDEPN AESDYTYSSS YEQFNGELPN GRHKIPESQF PEFSTSLFSG SLEPVACGSV LSEGSPLTEQ EESSPSHDRS RTVSASSTGD LPKAKTRAAD LLVNPLDPRN ADKIRVKIAD LGNACWVHKH FTEDIQTRQY RSIEVLIGAG YSTPADIWST ACMAFELATG DYLFEPHSGE DYSRDEDHIA HIIELLGSIP RHFALSGKYS REFFNRRGEL RHITKLKPWS LFDVLVEKYG WPHEDAAQFT DFLIPMLEMV PEKRASAGEC LRHPWLNS **Sequence without tag. The proposed Purification-**

Product Details

	Tag is based on experiences with the expression system, a 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:	SRPK2
Alternative Name:	SRPK2 (SRPK2 Products)
Background:	SRSF protein kinase 2 (EC 2.7.11.1) (SFRS protein kinase 2) (Serine/arginine-rich protein-specific kinase 2) (SR-protein-specific kinase 2) [Cleaved into: SRSF protein kinase 2 N-terminal, SRSF protein kinase 2 C-terminal],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 (PubMed:9472028, PubMed:18559500, PubMed:21056976). Promotes neuronal apoptosis by up-regulating cyclin-D1 (CCND1) expression (PubMed:19592491). This is done by the phosphorylation of SRSF2, leading to the

Target Details

	suppression of p53/TP53 phosphorylation thereby relieving the repressive effect of p53/TP53 on cyclin-D1 (CCND1) expression (PubMed:21205200). Phosphorylates ACIN1, and redistributes it from the nuclear speckles to the nucleoplasm, resulting in cyclin A1 but not cyclin A2 up-regulation (PubMed:18559500). Plays an essential role in spliceosomal B complex formation via the phosphorylation of DDX23/PRP28 (PubMed:18425142). 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 (PubMed:28076779). Can mediate hepatitis B virus (HBV) core protein phosphorylation (PubMed:12134018). 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 (PubMed:16122776). {ECO:0000269|PubMed:12134018, ECO:0000269|PubMed:16122776, ECO:0000269|PubMed:18425142, ECO:0000269|PubMed:18559500, ECO:0000269|PubMed:19592491, ECO:0000269|PubMed:21056976, ECO:0000269|PubMed:21205200, ECO:0000269|PubMed:28076779, ECO:0000269|PubMed:9472028}.
Molecular Weight:	77.5 kDa
UniProt:	P78362
Pathways:	Ribonucleoprotein Complex Subunit Organization

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.
Expiry Date:	12 months