

SRPK2 Protein, Human (Sf9, GST)

Cat. No.:	HY-P701635
Synonyms:	SRPK2; SRSF protein kinase 2; SFRS protein kinase 2; Serine/arginine-rich protein-specific kinase 2; SR-protein-specific kinase 2
Species:	Human
Source:	Sf9 insect cells
Accession:	P78362 (S2-N688)
Gene ID:	6733
Molecular Weight:	

PROPERTIES

Appearance	Solution.
Formulation	Supplied as a 0.22 µm filtered solution of 50 mM Tris-HCl, pH7.5, 200 mM NaCl, 20% glycerol.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	Please use rapid thawing with running water to thaw the protein.
Storage & Stability	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.
Shipping	Shipping with dry ice.

DESCRIPTION

Background	SRPK2, a serine/arginine-rich protein-specific kinase, exhibits a specific penchant for phosphorylating serine residues within arginine/serine-rich domains, known as RS domains. Functionally, SRPK2 is integral to the phosphorylation of SR splicing factors, intricately regulating splicing processes. Notably, SRPK2 contributes to neuronal apoptosis by up-regulating cyclin-D1 (CCND1) expression, achieved through the phosphorylation of SRSF2. This phosphorylation event suppresses p53/TP53 phosphorylation, thus alleviating p53/TP53's repressive impact on cyclin-D1 (CCND1) expression. Additionally, SRPK2 plays a crucial role in spliceosomal B complex formation by phosphorylating DDX23/PRP28, and its phosphorylation of ACIN1 leads to the redistribution of ACIN1 from nuclear speckles to the nucleoplasm, resulting in up-regulation of cyclin A1. Furthermore, SRPK2 participates in modulating hepatitis B virus (HBV) replication, impacting HBV core protein phosphorylation and pregenomic RNA (pgRNA) packaging efficiency, revealing its multifaceted regulatory roles in cellular and viral processes.
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Caution: Product has not been fully validated for medical applications. For research use only.

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