

NCKIPSD Protein, Human (His)

Cat. No.:	HY-P77099
Synonyms:	NCK-interacting protein with SH3 domain; VIP54; WISH; AF3P21; SPIN90
Species:	Human
Source:	E. coli
Accession:	Q9NZQ3-3 (M1-T244)
Gene ID:	51517
Molecular Weight:	Approximately 33-45 kDa

PROPERTIES

AA Sequence	<pre> MYRALYAFRS AEPNALAFAA GETFLVLEERS SAHWWLAAARA RSGETGYVPP AYLRRLQGLE QDVLQAIDRA IEAVHNTAMR DGGKYSLEQR GVLQKLIHHR KETLSRRGPS ASSVAVMTSS TSDHHLDAAA ARQPNGVCRA GFERQHSLPS SEHLGADGGL YQIPPPQPRRA APTTPPPPVK RRDREALMAS GSGGHNTMPS GNSVSSGSS VSS TSLDTLY TSSSPSEPGS SCSPTPPVP RRGT </pre>
Appearance	Lyophilized powder
Formulation	Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	NCKIPSD Protein plays a crucial role in the formation of stress fibers induced by active diaphanous protein homolog 1 (DRF1) and promotes microspike formation in vivo. It also stimulates N-WASP-induced ARP2/3 complex activation in the absence of CDC42 in vitro. Additionally, it is involved in the maintenance of sarcomeres and the assembly of myofibrils into sarcomeres, contributing to actin polymerization and cell adhesion regulation. NCKIPSD Protein is implicated in angiogenesis and associates with intermediate filaments such as vimentin and desmin. It binds to the SH3 domains of NCK,
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GRB2, and diaphanous protein homolog 1 (DRF1), as well as the proline-rich domains of N-WASP. It interacts with Helicobacter pylori toxin vacA, FHOD1 (isoform 4), FASLG, and TMIGD2.

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA