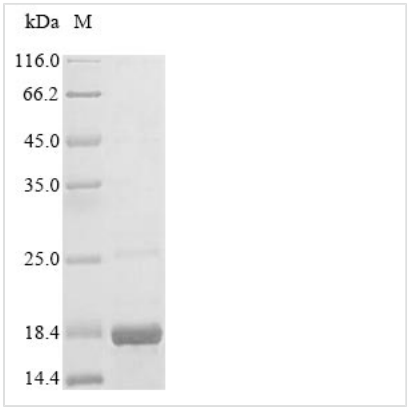
Recombinant Human SH3 and PX domain-containing protein 2A (SH3PXD2A), partial

Product Code	CSB-EP735983HU
Relevance	Adapter protein involved in invadopodia and podosome formation, extracellular matrix degradation and invasiveness of some cancer cells. Binds matrix metalloproteinases (ADAMs), NADPH oxidases (NOXs) and phosphoinositides. Acts as an organizer protein that allows NOX1- or NOX3-dependent reactive oxygen species (ROS) generation and ROS localization. In association with ADAM12, mediates the neurotoxic effect of amyloid-beta peptide.
Abbreviation	Recombinant Human SH3PXD2A protein, partial
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
Uniprot No.	Q5TCZ1
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Purity	Greater than 90% as determined by SDS-PAGE.
Sequence	PDPSGKELDTVPAKGRQNEGKSDSLEKIERRVQALNTVNQSKKATPPIPSKPP GGFGKTSGTPAVKMRNGVRQVAVRPQSVFVSP
Research Area	Others
Source	E.coli
Target Names	SH3PXD2A
Protein Names	Adapter protein TKS5 (Five SH3 domain-containing protein) (SH3 multiple domains protein 1) (Tyrosine kinase substrate with five SH3 domains FISH) (KIAA0418) (SH3MD1) (TKS5)
Expression Region	902-986aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	N-terminal 10xHis-tagged and C-terminal Myc-tagged
Mol. Weight	14.0 kDa
Protein Length	Partial
Image	



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

Description

Constructing a plasmid encoding the Human SH3PXD2A protein (902-986aa) initiates the general approach for generating the recombinant Human SH3PXD2A protein. Transformation of the plasmid into e.coli cells obtains the plasmid-containing e.coli cells, which are cultured and induced for protein expression. A N-terminal 10xHis tag and C-terminal Myc tag is fused to the protein. Subsequently, the protein is purified through affinity purification, and SDS-PAGE analysis is undertaken to confirm the presence and assess the purity of the protein. The protein's purity exceeds 90%.

Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL.We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

Shelf Life

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