Recombinant CNKR3 protein (His tag)

Catalog Number	540529
Synonyms	Connector enhancer of KSR 3; CNK homolog protein 3; CNK3; CNKSR family member 3; Maguin-like protein
Species	Human
Expression System	E. coli
Accession	Q6P9H4
Molecular Weight	Predictes a molecular mass of 34.38 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 35 kDa band.

Product Information

Sequence Region	1-292
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>89%, by SDS-PAGE with Coomassie Brilliant Blue staining.
Endotoxin	Not tested.
Activity	Not tested.
Stability	Samples are stable for up to twelve months from date of receipt at -70℃
Protein Construction	DNA encoding 1-292 aa (Q6P9H4) were fused with 6His tag.

Storage & Handling

Reconstitution	Reconstitute at 0.25 μg/μl in sterile water for short-term storage. Reconstitution with 50% glycerol solution is recommended for longer term storage (see Stability and Storage for more details). If a different concentration is needed for your purposes please adjust the reconstitution volume as required (please note: the ion concentration of the final solution will vary according to the volume used). Note: Centrifuge vial before opening. When reconstituting, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution.
Storage	Store it under sterile conditions at -20℃ to -80℃. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Shipping	In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature. Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice unless customers require otherwise.

Description

Description	Recombinant Human CNKSR3 Protein Fragment (1-292) is a high-purity, functional fragment of the Connector enhancer of kinase suppressor of ras 3 (CNKSR3), designed to encompass the SAM and CRIC domains. This product is an essential tool for researchers studying transepithelial sodium transport and epithelial sodium channel (ENaC) regulation, offering targeted insights into domain-specific mechanisms. The full-length CNKSR3 protein, also known as CNK homolog protein 3 or Maguin-like protein, plays a critical role in transepithelial sodium transport by regulating aldosterone-induced and ENaC-mediated sodium transport. It functions as a scaffold protein, coordinating the assembly of an ENaC-regulatory complex (ERC) to control ENaC cell surface expression. CNKSR3 is localized in the cytoplasm and at the apical cell membrane as a peripheral membrane protein, underscoring its importance in cellular sodium homeostasis and potential implications in related physiological and pathological processes.