

CNKS3 Protein, Human (sf9, GST)

Cat. No.:	HY-P76838
Synonyms:	Connector enhancer of kinase suppressor of ras 3; CNK3; Maguin-like protein; MAG11
Species:	Human
Source:	Sf9 insect cells
Accession:	Q6P9H4 (M1-V352)
Gene ID:	154043
Molecular Weight:	53-65 kDa

PROPERTIES

Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.
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.
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	<p>The CNKS3 Protein plays a pivotal role in the modulation of transepithelial sodium transport by regulating aldosterone-induced and epithelial sodium channel (ENaC)-mediated sodium transport through precise control of ENaC cell surface expression. Functioning as a scaffold protein, CNKS3 orchestrates the assembly of an ENaC-regulatory complex (ERC). Its direct interaction with the C-terminal tails of ENaC subunits, SCNN1A (alpha) and SCNN1B (beta), underscores its involvement in coordinating the formation of the regulatory complex. Moreover, CNKS3 interacts with key players in the ENaC regulatory network, including NEDD4L, RAF1, and SGK1, highlighting its role as a central mediator in the intricate regulation of sodium transport across epithelial cells. The multifaceted interactions of CNKS3 emphasize its significance in the fine-tuning of sodium homeostasis and underline its position as a crucial player in the complex machinery governing ion transport processes.</p>
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Caution: Product has not been fully validated for medical applications. For research use only.

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