

RCN3 Protein, Mouse (HEK293, His)

Cat. No.:	HY-P77177
Synonyms:	Reticulocalbin-3; EF-Hand Calcium-Binding Protein RLP49; RCN3
Species:	Mouse
Source:	HEK293
Accession:	Q8BH97 (K21-L328)
Gene ID:	52377
Molecular Weight:	Approximately 48 kDa

PROPERTIES

AA Sequence	<p> K P S P D A G P H G Q D R V H H G T P L S E A P H D D A H G N F Q Y D H E A F L G R D V A K E F D K L S P E E S Q A R L G R I V D R M D L A G D S D G W V S L A E L R A W I A H T Q Q R H I R D S V S A A W H T Y D T D R D G R V G W E E L R N A T Y G H Y E P G E E F H D V E D A E T Y K K M L A R D E R R F R V A D Q D G D S M A T R E E L T A F L H P E E F P H M R D I V V A E T L E D L D K N K D G Y V Q V E E Y I A D L Y S E E P G E E E P A W V Q T E R Q Q F R E F R D L N K D G R L D G S E V G Y W V L P P S Q D Q P L V E A N H L L H E S D T D K D G R L S K A E I L S N W N M F V G S Q A T N Y G E D L T R H H D E L </p>
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	RCN3 Protein is a probable molecular chaperone that assists in protein biosynthesis and transport within the endoplasmic reticulum, playing a crucial role in maintaining pulmonary surfactant homeostasis by ensuring the proper biosynthesis and transport of pulmonary surfactant-associated proteins A/SP-A, D/SP-D, and the lipid transporter ABCA3. Additionally, it exhibits anti-fibrotic activity by negatively regulating the secretion of type I and type III collagens. Furthermore, RCN3
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Protein transiently associates with immature PCSK6 and regulates its secretion, suggesting its involvement in the maturation and secretion of PCSK6.

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

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