RCN3 Protein, Rat (HEK293, His)

Cat. No.:	HY-P77476
Synonyms:	Reticulocalbin-3; EF-Hand Calcium-Binding Protein RLP49; RCN3
Species:	Rat
Source:	HEK293
Accession:	I6L9G5 (K21-H324)
Gene ID:	494125
Molecular Weight:	Approximately 40-50 kDa

PROPERTIES

AA Sequence	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 Q L T 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 A E P G E E E P A W V Q T E R Q Q F R D 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
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.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH_2O.
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	The RCN3 protein is implicated as a probable molecular chaperone, playing a crucial role in assisting protein biosynthesis and transport within the endoplasmic reticulum. Its involvement extends to the proper biosynthesis and transport of key proteins, including pulmonary surfactant-associated protein A/SP-A, pulmonary surfactant-associated protein D/SP-D, and the lipid transporter ABCA3, highlighting its significance in pulmonary surfactant homeostasis. Moreover, RCN3

demonstrates anti-fibrotic activity by negatively regulating the secretion of type I and type III collagens. Notably, this calcium-binding protein transiently associates with immature PCSK6, regulating its secretion and suggesting a role in the maturation and secretion processes of PCSK6. The multifaceted functions of RCN3 underscore its importance in maintaining cellular homeostasis, particularly in the context of protein biosynthesis, secretion, and anti-fibrotic processes.

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