

RCN3 Protein, Human (HEK293, His)

Cat. No.:	HY-P71253
Synonyms:	Reticulocalbin-3; EF-Hand Calcium-Binding Protein RLP49; RCN3
Species:	Human
Source:	HEK293
Accession:	Q96D15 (K21-L328)
Gene ID:	57333
Molecular Weight:	Approximately 43.0 kDa

PROPERTIES

AA Sequence	<pre> K P S P D A G P H G Q G R V H Q A A P L S D A P H D D A H G N F Q Y D H E A F L G R E 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 R A G D G 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 D T Y D T D R D G R V G W E E L R N A T Y G H Y A 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 I A E T L E D L D R 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 H L D G S E V G H W V L P P A 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 G N W N M F V G S Q A T N Y G E D L T R H H D E L </pre>
Appearance	Solution
Formulation	Supplied as a 0.2 µm filtered solution of 20 mM Tris-HCl, 150 mM NaCl, 1 mM DTT, 10% Glycerol, pH 7.4.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	N/A
Storage & Stability	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.
Shipping	Shipping with dry ice

DESCRIPTION

Background	<p>RCN3 protein is a probable molecular chaperone that assists in protein biosynthesis and transport within the endoplasmic reticulum. It is required for the proper biosynthesis and transport of pulmonary surfactant-associated proteins A/SP-A and D/SP-D, as well as the lipid transporter ABCA3. By regulating the expression and degradation of these proteins through the endoplasmic reticulum-associated protein degradation pathway, RCN3 plays a crucial role in maintaining pulmonary surfactant homeostasis. Additionally, it exhibits anti-fibrotic activity by negatively regulating the secretion of type I and type</p>
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III collagens. RCN3 is known to transiently associate with immature PCSK6 and is involved in its maturation and secretion.

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

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