

## Product datasheet for **AR50259PU-N**

### Reticulocalbin-3 / RCN3 (21-328, His-tag) Human Protein

#### Product data:

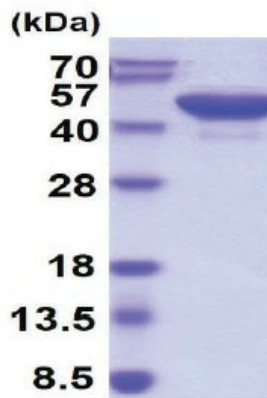
Product Type:	Recombinant Proteins
Description:	Reticulocalbin-3 / RCN3 (21-328, His-tag) human recombinant protein, 0.5 mg
Species:	Human
Expression Host:	E. coli
Expression cDNA Clone or AA Sequence:	<u>MGSSHHHHHH SGLVPRGSH MGS</u> <u>HM</u> KPSPD AGPHGQGRVH QAAPLSDAPH DDAHGNFQYD HEAFLGREVA KEFDQLTPEE SQARLGRIVD RMDRAGDGDG WVSLAELRAW IAHTQQRHIR DSVSAAWDY DTDRDGRVGV EELRNATYGH YAPGEEFHDV EDAETYKKML ARDERRFRVA DQDGD SMATR EELTAFLHPE EFPHMRDIVI AETLEDLDRN KDG YVQVEEY IADLYSAEPG EEP AWVQTE RQQRDFRDL NKDGHLDGSE VGHWWLPPAQ DQPLVEANHL LHESD TDKDG RLSKAEILGN WNMFGSQAT NYGEDLTRHH DEL
Tag:	His-tag
Predicted MW:	37.9 kDa
Concentration:	lot specific
Purity:	>95% by SDS - PAGE
Buffer:	Presentation State: Purified State: Liquid purified protein Buffer System: 20 mM Tris-HCl buffer (pH 8.0) containing 1 mM DTT, 10% glycerol, 0.1M NaCl
Preparation:	Liquid purified protein
Protein Description:	Recombinant human RCN3 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
Storage:	Store undiluted at 2-8°C for one week or (in aliquots) at -20°C to -80°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
RefSeq:	<u>NP_065701</u>
Locus ID:	57333
UniProt ID:	<u>Q96D15</u>
Cytogenetics:	19q13.33
Synonyms:	RLP49



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**Summary:**

Probable molecular chaperone assisting protein biosynthesis and transport in the endoplasmic reticulum (PubMed:16433634, PubMed:28939891). Required for the proper biosynthesis and transport of pulmonary surfactant-associated protein A/SP-A, pulmonary surfactant-associated protein D/SP-D and the lipid transporter ABCA3 (By similarity). By regulating both the proper expression and the degradation through the endoplasmic reticulum-associated protein degradation pathway of these proteins plays a crucial role in pulmonary surfactant homeostasis (By similarity). Has an anti-fibrotic activity by negatively regulating the secretion of type I and type III collagens (PubMed:28939891). This calcium-binding protein also transiently associates with immature PCSK6 and regulates its secretion (PubMed:16433634).[UniProtKB/Swiss-Prot Function]

**Product images:**

15% SDS-PAGE (3ug)