

**RCN1, 30-331aa, Human, His tag, E.coli**

**Cat.NO.: TP03704**

3th Edition

**Synonyms:**Reticulocalbin-1, PIG20, RCAL, RCN

**Description:**Reticulocalbin 1(RCN1) is a calcium-binding protein. It binds calcium and may regulate calciumdependent activities in the endoplasmic reticulum lumen or post-ER compartment. The protein contains six conserved regions with similarity to a high affinity Ca(+2)-binding motif, the EF-hand. High conservation of amino acid residues outside of these motifs, in comparison to mouse reticulocalbin, is consistent with a possible biochemical function besides that of calcium binding.

**Form:**Liquid. 20mM Tris-HCl buffer (pH8.0) containing 10% glycerol,1mM DTT, 100mM NaCl

**Molecular Weight:**40.4kDa (341aa) confirmed by MALDI-TOF (Real molecular weight on SDS-PAGE will be shift up)

**Sequences:**

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MRGSHHHHHHGMASMTGGQQMGRDLYDDDDKDRWGSELEKPTVRKERVVRPDSELGERPPEDNQSFQYDHEA
FLGKEDSKTFDQLTPDESKERLGKIVDRIDNDGGFVTTEELKTWIKRVQKRYIFDNVAKVWKDYDRDKDDKISWE
EYKQATYGYLGNPAEFHDSSDHHTFKKMLPRDERRFKAADLNGDLTATREEFTAFLHPEEFEHMKEIVVLETLEDI
DKNGDGFVDQDEYIADMFSHEENGPEPDWVLSEREQFNEFRDLNKGKLDKDEIRHWILPQDYDHAQAEARHLVY
ESDKNKDEKLTKEEILENWNMFVGSQATNYGEDLTKNHDEL
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**Purity:**> 95% by HPLC

**Concentration:**1 mg/ml (determined by Bradford assay)

**Endotoxin Level:**<1.0 EU per 1 ug of protein (determined by LAL method)

**Storage:**Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.