
Product Data Sheet

Product Name: RCN1 Human
 Cat. No.: GP24359
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	PIG20; RCAL; RCN.		
Amino Acid Sequence	MRGSHHHHHH GMASMTGGQQ MGRDLYDDDD KDRWGSELEK PTVRKERVVR PDSELGERPP EDNQSFQYDH EAFLGKEDSK TFDQLTPDES KERLGKIVDR IDNDGDGFVT TEELKTWIKR VQKRYIFDNV AKVWKDYDRD KDDKISWEEY KQATYGYLGG NPAEFHDSSD HHTFKKMLPR DERRFKAADL NGDLTATREE FTAFLHPEEF EHMKEIVVLE TLEDIDKNGD GFVDQDEYIA DMFSHEENGP EPDWVLSERE QFNEFRDLNK DGKLDKDEIR HWILPQDYDH AQAEARHLVY ESDKNKDEKL TKEEILENWN MFVGSQATNY GEDLTKNHDE L.		
Formulation	1mg/ml solution containing 20mM Tris-HCl pH-8, 1mM DTT, 0.1M NaCl & 10% glycerol.		

Introduction

RCN1 is a calcium-binding protein which binds calcium and controls calcium-dependent activities in the endoplasmic reticulum lumen or post-ER compartment. RCN1 withholds 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 relation to mouse reticulocalbin, is consistent with a biochemical function further to that of calcium binding. In human endothelial and prostate cancer cell lines RCN1 protein is localized to the plasma membrane.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

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

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RCN1 Recombinant Human produced in E.Coli is a single, non-glycosylated polypeptide chain containing 341 amino acids (30-331 a.a.) and having a molecular mass of 40.4kDa (real molecular weight on SDS-PAGE will be shift up). The RCN1 is fused to 39 amino acid His-Tag at N-terminus and purified by proprietary chromatographic techniques.

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