

## Recombinant Mouse RCN3 Protein (Met1-Leu328), His-tagged

Cat. No. RCN3-872M Lot. No. (See product label)

### SPECIFICATION

**Product Overview** Recombinant Mouse RCN3 Protein (NP\_080831.2) (Met1-Leu328) was produced by HEK293 Cells expression system. This protein was expressed with a polyhistidine tag at the C-terminus.

**Species** Mouse

**Source** HEK293

**ProteinLength** Met1-Leu328

**Description** RCN3 belongs to the CREC family which contains multiple EF-hand Ca<sup>2+</sup>-binding proteins localized to the secretory pathway. RCN3 sequence is characterized by the presence of five Arg-Xaa-Xaa-Arg motifs, which represents the target sequence of subtilisin-like proprotein convertases (SPCs). SPCs are a family of seven structurally related serine endoproteases that are involved in the proteolytic activation of proproteins. RCN3 is transiently associated with proPACE4, but not with mature PACE4. Inhibition of PACE4 maturation by a Ca<sup>2+</sup> ionophore resulted in accumulation of the proPACE4-RCN-3 complex in cells. It has been proposed that elective and transient association of RCN3 with the precursor of PACE4 plays an important role in the biosynthesis of PACE4.

**Predicted N Terminal** Lys

**Form** Lyophilized from sterile PBS, pH 7.4. Normally 5% - 8% trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.

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<b>Molecular Mass</b>	The recombinant mouse Rcn3 consists of 319 amino acids and predicts a molecular mass of 36.9 kDa.
<b>Endotoxin</b>	< 1.0 EU per µg protein as determined by the LAL method.
<b>Purity</b>	> 95 % as determined by SDS-PAGE.
<b>Stability</b>	Samples are stable for up to twelve months from date of receipt at -70 centigrade.
<b>Storage</b>	Store it under sterile conditions at -20 centigrade to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
<b>Reconstitution</b>	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 mg/ml. Centrifuge the vial at 4°C before opening to recover the entire contents.
<b>Shipping</b>	In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature. Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice unless customers require otherwise.

## GENE INFORMATION

<b>Gene Name</b>	Rcn3 reticulocalbin 3, EF-hand calcium binding domain [ <i>Mus musculus</i> ]
<b>Official Symbol</b>	RCN3
<b>Synonyms</b>	RCN3; RLP49; D7Erttd671e; 6030455P07Rik; D530026G20Rik; MGC102610;
<b>Gene ID</b>	52377

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mRNA Refseq [NM\\_026555](#)

Protein Refseq [NP\\_080831](#)

UniProt ID [Q8BH97](#)

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