

Recombinant Human Reticulocalbin 3/RCN3 Protein (aa 1-324, His Tag)

Catalog No. PKSH030608

Note: Centrifuge before opening to ensure complete recovery of vial contents.

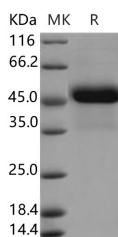
Description

Synonyms	Reticulocalbin-3;EF-Hand Calcium-Binding Protein RLP49;RCN3
Species	Human
Expression Host	HEK293 Cells
Sequence	Met 1-His324
Accession	Q96D15
Calculated Molecular Weight	36.2 kDa
Tag	C-His
Bioactivity	Not validated for activity

Properties

Purity	> 90 % as determined by reducing SDS-PAGE.
Endotoxin	< 1.0 EU per µg of the protein as determined by the LAL method.
Storage	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
Shipping	This product is provided as lyophilized powder which is shipped with ice packs.
Formulation	Lyophilized from sterile PBS, pH 7.4 Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed manual.
Reconstitution	Please refer to the printed manual for detailed information.

Data



> 90 % as determined by reducing SDS-PAGE.

Background

RCN3 belongs to the CREC family which contains multiple EF-hand Ca²⁺-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

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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^{2+} 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.