

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



Catalog Number:PKSH030608

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

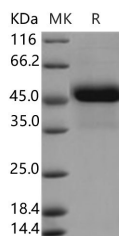
Description

| | |
|------------------------------------|---|
| 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 |

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 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 Ca²⁺ 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.

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