Recombinant Human Grancalcin/GCA Protein

Catalog No. PKSH032506

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

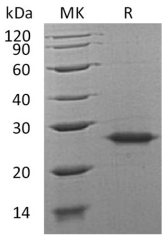
Description

Synonyms	Grancalcin;GCA;GCL
Species	Human
Expression Host	E.coli
Sequence	Met 1-Ile217
Accession	P28676
Calculated Molecular Weight	24.0 kDa
Observed molecular weight	26 kDa
Tag	None
Bioactivity	Not validated for activity

Properties

Purity	> 95 % 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℃. Reconstituted protein solution can be stored at 4-8℃ for 2-7 days. Aliquots of reconstituted samples are stable at < -20℃ for 3 months.
Shipping	This product is provided as lyophilized powder which is shipped with ice packs.
Formulation	Lyophilized from a 0.2 μm filtered solution of 20mM Tris-HCl, 150mM NaCl, 1mM EDTA, pH 8.5. Normally 5% - 8% trehalose, mannitol and 0.01% Tween 80 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



> 95 % as determined by reducing SDS-PAGE.

Background

Grancalcin (GCA) is a cytoplasmic granule membrane protein that contains 4 EF-hand domains. GCA is calcium-binding

protein and particularly abundant in human neutrophils. GCA is highly expressed in bone marrow; and it can be detected in neutrophils and macrophages. Calcium-binding protein GCA cooperates with SRI and LCP1; so it may play a role in the adhesion of neutrophils to fibronectin. GCA also may play a role in the formation of focal adhesions.

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