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# Recombinant Human Grancalcin/GCA Protein

Catalog No. PKSH032506

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

### **Description**

Synonyms Grancalcin;GCA;GCL

SpeciesHumanExpression HostE.coli

SequenceMet 1-Ile217AccessionP28676Calculated Molecular Weight24.0 kDaObserved molecular weight26 kDaTagNone

**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°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 a 0.2 µm filtered solution of 20mM Tris-HCl, 150mM NaCl,

1mM EDTA, pH 8.5.

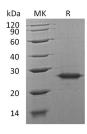
Normally 5% - 8% trehalose, mannitol and 0.01% Tween 80 are added as

protectants before lyophilization.

Please refer to the specific buffer information in the printed manual.

**Reconstitution** Please refer to the printed manual for detailed information.

# <u>Data</u>



> 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

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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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