

# Recombinant Human Grancalcin/GCA Protein (GST Tag)



Catalog Number:PKSH032507

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

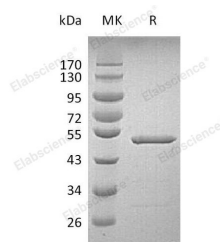
## Description

<b>Synonyms</b>	Grancalcin;GCA;GCL
<b>Species</b>	Human
<b>Expression Host</b>	E.coli
<b>Sequence</b>	Met 1-Ile217
<b>Accession</b>	P28676
<b>Calculated Molecular Weight</b>	50.3 kDa
<b>Observed molecular weight</b>	50 kDa
<b>Tag</b>	N-GST

## Properties

<b>Purity</b>	> 95 % as determined by reducing SDS-PAGE.
<b>Endotoxin</b>	< 1.0 EU per µg of the protein as determined by the LAL method.
<b>Storage</b>	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.
<b>Shipping</b>	This product is provided as lyophilized powder which is shipped with ice packs.
<b>Formulation</b>	Lyophilized from a 0.2 µm filtered solution of 20mM Tris-HCl 4% Sucrose 4% Mannitol 0.02% Tween 80 (w/v) pH 8.0. Normally 5 % - 8 % trehalose, mannitol and 0.01 % Tween80 are added as protectants before lyophilization. Please refer to the specific
<b>Reconstitution</b>	Please refer to the printed manual for detailed information.

## Data



> 95 % as determined by reducing SDS-PAGE.

## Background

Grancalcin (GCA) is a member of the penta EF hand subfamily which includes sorcin; calpain and ALG2. Grancalcin is highly expressed bone marrow and also can be detected in neutrophils and macrophages. Grancalcin interacts with L-plastin which is known to have actin bundling activity. It indicates that Grancalcin may play an important role in the adhesion of neutrophils to fibronectin. Furthermore; Grancalcin localization is dependent upon calcium and magnesium. It associates with both the granule and membrane fractions; which suggested a role for grancalcin in granule-membrane fusion and degranulation.

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