Recombinant Human Grancalcin/GCA Protein (GST Tag)

Catalog Number: PKSH032507

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

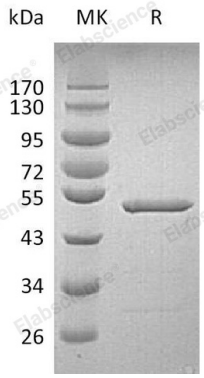
Description

Species	Human
Source	E.coli-derived Human Grancalcin;GCA protein Met 1-Ile217, with an N-terminal GST
Calculated MW	50.3 kDa
Observed MW	50 kDa
Accession	P28676
Bio-activity	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，4% Sucrose，4% Mannitol，0.02% Tween 80 (w/v)，pH 8.0. 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 member of the penta EF hand subfamily which includes sorcin; calpain and ALG2. Grancalcin is highly expressed bone marrow and also can detected in neutrophils and macrophages. Grancalcin interacts with L-plastin which 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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