



Recombinant Protein Technical Manual
Recombinant Human Grancalcin/GCA Protein (GST
Tag)
RPES5246

Product Data:

Product SKU: RPES5246

Size: 10µg

Species: Human

Expression host: E. coli

Uniprot: P28676

Protein Information:

Molecular Mass: 50.3 kDa

AP Molecular Mass: 53 kDa

Tag: N-GST

Bio-activity:

Purity: > 95 % as determined by reducing SDS-PAGE.

Endotoxin: < 1.0 EU per µg as determined by the LAL method.

Storage: 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 TrisHCl, 500mM NaCl, pH 8.5 .

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

Application:

Synonyms: Grancalcin; GCA; GCL

Immunogen Information:

Sequence: Met 1-Ile217

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.