



Recombinant Protein Technical Manual

Recombinant Human Grancalcin/GCA Protein

RPES5224

Product Data:

Product SKU: RPES5224

Size: 10µg

Species: Human

Expression host: E. coli

Uniprot: P28676

Protein Information:

Molecular Mass: 24.0 kDa

AP Molecular Mass: 26 kDa

Tag:

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, 150mM NaCl, 1mM EDTA, 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 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.