**Product Name: Recombinant Human GCA (N-GST)**
**Catalog #: PEH0757**

## Summary

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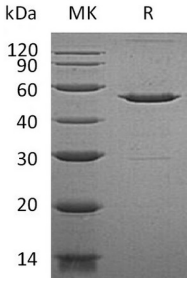
| **Name** | Grancalcin/GCA |
| **Purity** | Greater than 95% as determined by reducing SDS-PAGE |
| **Endotoxin level** | <1 EU/μg as determined by LAL test. |
| **Construction** | Recombinant Human Grancalcin is produced by our E.coli expression system and the target gene encoding Met1-Ile217 is expressed with a GST tag at the N-terminus. |
| **Accession #** | P28676 |
| **Host** | E.coli |
| **Species** | Human |
| **Predicted Molecular Mass** | 50.3 KDa |
| **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. |
| **Shipping** | The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature listed below. |
| **Stability&Storage** | Store at ≤-70°C, stable for 6 months after receipt. Store at ≤-70°C, stable for 3 months under sterile conditions after opening. Please minimize freeze-thaw cycles. |
| **Reconstitution** | Always centrifuge tubes before opening. Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than 100μg/ml. Dissolve the lyophilized protein in distilled water. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.Always centrifuge tubes before opening. Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than 100μg/ml. Dissolve the lyophilized protein in distilled water. Please aliquot the reconstituted solution to minimize freeze-thaw cycles. |

## SDS-PAGE image




## Background

**Product Name: Recombinant Human GCA (N-GST)**
**Catalog #: PEH0757**

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|---|---|
| **Alternative Names** | Grancalcin; GCA; GCL |
| **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. |

## Note

For Research Use Only , Not for Diagnostic Use.