

Recombinant Human GCA grancalcin, EF-hand Calcium Binding Protein, His-tagged

Cat. No. GCA-2921H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human GCA protein was expressed in E.coli with His-tag at the N-terminus. The molecular weight is 24010 Da(217 aa).
Species	Human
Source	E.coli
Description	Grancalcin is a protein that in humans is encoded by the GCA gene. grancalcin, is a calcium-binding protein abundant in neutrophils and macrophages. It belongs to the penta-EF-hand subfamily of proteins which includes sorcin, calpain, and ALG-2. Grancalcin localization is dependent upon calcium and magnesium. In the absence of divalent cation, grancalcin localizes to the cytosolic fraction; with magnesium alone, it partitions with the granule fraction; and in the presence of magnesium and calcium, it associates with both the granule and membrane fractions, suggesting a role for grancalcin in granule-membrane fusion and degranulation.
Sequences of amino acids	1-217 aa
Formulation	10 mM Tris. pH 8.0. 0.002% NaN ₃ . 3mM NaCl. 2.5mM Imidazole.
Purity	95%

GENE INFORMATION

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Gene Name	GCA grancalcin, EF-hand calcium binding protein [Homo sapiens]
Synonyms	GCL; grancalcin; OTTHUMP00000204639; OTTHUMP00000204640; grancalcin, penta-EF-hand protein; grancalcin, EF-hand calcium-binding protein
Gene ID	25801
mRNA Refseq	NM_012198
Protein Refseq	NP_036330
MIM	607030
UniProt ID	P28676
Chromosome Location	2q37.1
Pathway	Insulin signaling pathway; mTOR signaling pathway
Function	calcium ion binding; protein homodimerization activity
PDBrendering based on 1f4o.	

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