

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

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

## SPECIFICATION

<b>Product Overview</b>	Recombinant Human GCA protein was expressed in E.coli with His-tag at the N-terminus. The molecular weight is 24010 Da(217 aa).
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>Description</b>	<p>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.</p> <p>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.</p>
<b>Sequences of amino acids</b>	1-217 aa
<b>Formulation</b>	10 mM Tris. pH 8.0. 0.002% NaN <sub>3</sub> . 3mM NaCl. 2.5mM Imidazole.
<b>Purity</b>	95%

## GENE INFORMATION

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

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