

Recombinant Human GCA, His-tagged

Cat. No. GCA-26242TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human Grancalcin with an N terminal His tag; 237 amino acids with tag, Predicted MWt 26.1 kDa.
Species	Human
Source	E.coli
ProteinLength	217 amino acids
Description	This gene product, 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.
Conjugation	HIS
Molecular Weight	26.100kDa inclusive of tags
Form	Liquid
Purity	>95% by SDS-PAGE

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Storage buffer	Preservative: None Constituents: 20% Glycerol, 0.1M Sodium chloride, 20mM Tris HCl, pH 8.0
Storage	Store at +4°C short term (1-2 weeks). Aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
Sequences of amino acids	MGSSHHHHHSSGLVPRGSHMAYPGYGGGFGNFSIQVPGMQMGQPVPETGPAIL LDGYSGPAYSDTYSSAGDSVYTYFSAVAGQDGEVDAEELQRCLTQSGINGTYSFSS LETCRMIAMLDRDHTGKMGFNAFKELWAALNAWKENFMTVDQDGSQTVEHHELRL QAIGLMGYRLSPQTLTTIVKRYSKNGRIFDDYVACCVKLRLTDFFRKRDHLQQGS ANFIYDDFLQGTMAI

GENE INFORMATION

Gene Name	GCA grancalcin, EF-hand calcium binding protein [Homo sapiens]
Official Symbol	GCA
Synonyms	GCA; grancalcin, EF-hand calcium binding protein; grancalcin, EF hand calcium binding protein; grancalcin; GCL;
Gene ID	25801
mRNA Refseq	NM_012198
Protein Refseq	NP_036330
MIM	607030
Uniprot ID	P28676

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Chromosome Location	2p14-q14.3
Function	calcium ion binding; protein homodimerization activity;