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# Recombinant human GCA protein

Catalog Number: ATGP0886

## PRODUCT INFORMATION

# **Expression system**

E.coli

#### **Domain**

1-217aa

#### **UniProt No.**

P28676

#### **NCBI Accession No.**

NP 036330.1

#### **Alternative Names**

Grancalcin, GCL

# PRODUCT SPECIFICATION

# **Molecular Weight**

26.1 kDa (237aa) confirmed by MALDI-TOF

#### Concentration

1mg/ml (determined by BCA assay)

#### **Formulation**

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 20% glycerol 0.1M NaCl

#### **Purity**

> 95% by SDS-PAGE

### Tag

His-Tag

# **Application**

SDS-PAGE

# **Storage Condition**

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## **BACKGROUND**

## **Description**

GCA, also known as Grancalcin, is calcium-binding protein that is especially abundant in human neutrophils. It belongs to the penta EF-hand (PEF) subfamily of EF-hand proteins, which also comprises calpain, sorcin, peflin, and ALG-2. This protein undergoes important conformational changes upon binding of calcium, which subsequently exposes hydrophobic amino acid residues, which direct the protein to hydrophobic surfaces. It interacts with L-plastin, a protein known to have actin bundling activity, which suggests that GCA may play a role in the regulation of neutrophils adhesion. Recombinant human GCA protein, fused to His-tag at N-terminus, was



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expressed in E. coli and purified by using conventional chromatography.

# **Amino acid Sequence**

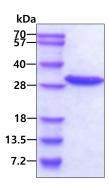
<MGSSHHHHHH SSGLVPRGSH> MAYPGYGGGF GNFSIQVPGM QMGQPVPETG PAILLDGYSG PAYSDTYSSA GDSVYTYFSA VAGQDGEVDA EELQRCLTQS GINGTYSPFS LETCRIMIAM LDRDHTGKMG FNAFKELWAA LNAWKENFMT VDQDGSGTVE HHELRQAIGL MGYRLSPQTL TTIVKRYSKN GRIFFDDYVA CCVKLRALTD FFRKRDHLQQ GSANFIYDDF LQGTMAI

# **General References**

Teahan C.G., et al. (1992). Biochem. J., 286: 549-554. Boyhan A., et al. (1992). J. Biol. Chem., 267: 2928-2933.

# **DATA**

# **SDS-PAGE**



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

