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GCA Human

Catalog #:PRPS-087

For research use only.

Description:GCA produced in E.Coli is a single, non-glycosylated polypeptide chain containing 237 amino acids (1-217.a.) and having a molecular mass of 26.1kDa. GCA is fused to a 20 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

Synonyms: Grancalcin EF-hand calcium binding protein, GCL, Grancalcin penta-EF-hand protein.

Source: Escherichia Coli.

Physical Appearance: Sterile Filtered clear solution.

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 LQ

Purity: Greater than 95% as determined by SDS-PAGE.

Formulation:
The GCA protein solution (1mg/1ml) is formulated in 20mM Tris-HCl buffer (pH8.0) 0.1M NaCl and 20% glycerol.

Usage:
NeoBiolabs products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drµgs, agricultural or pesticidal products, food additives or household chemicals.

Introduction:
Grancalcin is calcium-binding protein which is particularly abundant in human neutrophils. GCA is a member of the penta EF-hand (PEF) subfamily of EF-hand proteins, who also comprises calpain, sorcin, peflin, and ALG-2. GCA undergoes essential conformational changes upon binding of calcium, which subsequently exposes hydrophobic amino acid residues, that direct the protein to hydrophobic surfaces. GCA cooperates with L-plastin, a protein known to have actin bundling activity, which sµggests that GCA has a part in the regulation of neutrophils adhesion.

Storage:
Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time.Please avoid freeze thaw cycles.

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