

GCA, 1-217aa, Human, His tag, E.coli

Cat.NO.: TP02206

3th Edition

Synonyms:Grancalcin, GCL

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.

Form:Liquid. 20mM Tris-HCl buffer (pH8.0) containing 20% glycerol 0.1M NaCl

Molecular Weight:26.1 kDa (237aa), confirmed by MALDI-TOF

Sequences:

MGSSHHHHHSSGLVPRGSHMAYPGYGGGFGNFSIQVPGMQMGQPVPETGPAILLDGYSGPAYSDTYSSAGDS
VYTYFSAVAGQDGEVDAEELQRCLTQSGINGTYSFPLETCRIMIAMLDRDHTGKMGFNFAKELWAALNAWKENF
MTVDQDGSQTVEHHELRLQAIGLMGYRLSPQTLTTIVKRYSKNGRIFDDYVACCVKLRALTDFFRKRDLQGGSAN
FIYDDFLQGTMAI

Purity:> 95% by HPLC

Concentration:1.0 mg/ml (determined by BCA assay)

Endotoxin Level:<1.0 EU per 1 ug of protein (determined by LAL method)

Storage:Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.