Recombinant Human Grancalcin (GCA)

Product Code	CSB-BP009307HU
Storage	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
Uniprot No.	P28676
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Purity	>85% (SDS-PAGE)
Sequence	MAYPGYGGGF GNFSIQVPGM QMGQPVPETG PAILLDGYSG PAYSDTYSSA GDSVYTYFSA VAGQDGEVDA EELQRCLTQS GINGTYSPFS LETCRIMIAM LDRDHTGKMG FNAFKELWAA LNAWKENFMT VDQDGSGTVE HHELRQAIGL MGYRLSPQTL TTIVKRYSKN GRIFFDDYVA CCVKLRALTD FFRKRDHLQQ GSANFIYDDF LQGTMAI
Source	Baculovirus
Target Names	GCA
Protein Names	Recommended name: Grancalcin
Expression Region	1-217
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	Tag type will be determined during the manufacturing process.
Protein Length	Full length protein
Target Details	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.
Reconstitution	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL.We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.
Shelf Life	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.