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Datasheet for ABIN1096780
Grancalcin Protein (AA 1-218) (GST tag)

Overview

Quantity:	50 µg
Target:	Grancalcin (GCA)
Protein Characteristics:	AA 1-218
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This Grancalcin protein is labelled with GST tag.

Product Details

Purpose:	Recombinant Human Grancalcin/GCA (N-GST)
Sequence:	MSPILGYWKI KGLVQPTRLL LEYLEEKYEE HLYERDEGDK WRNKKFELGL EFPNLPYYID GDVKLTQSMA IIRYIADKHN MLGGCPKERA EISMLEGAVL DIRYGVSRIA YSKDFETLKV DFLSKLPEML KMFEDRLCHK TYLNGDHVTH PDFMLYDALD VVLYMDPMCL DAFPKLVCFK KRIEAIPQID KYLKSSKYIA WPLQGQWQATF GGGDHPPKSD LVPRGSMAYP GYGGGFGNFS IQVPGMQMGQ PVPETGPAIL LDGYSGPAYS DTYSSAGDSV YTYFSAVAGQ DGEVDAEELQ RCLTQSGING TYSFSLQETC RIMIAMLDRD HTGKMGFNAF KELWAALNAW KENFMTVDQD GSGTVEHHEL RQAIGLMGYR LSPQTLTTIV KRYSKNGRIF FDDYVACCVK LRALTDFFRK RDHLQQGSAN FIYDDFLQGT MAI
Characteristics:	Recombinant Human Grancalcin/GCA is produced with our E. coli expression system. The target protein is expressed with sequence (Met1-Lys218) of Human Grancalcin fused with a GST tag at the N-terminus.
Purity:	> 95 % as determined by reducing SDS-PAGE.

Product Details

Sterility:	0.2 µm filtered
Endotoxin Level:	Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test

Target Details

Target:	Grancalcin (GCA)
Alternative Name:	grancalcin (GCA Products)
Sub Type:	Fusionprotein
Background:	<p>Grancalcin (GCA) is a member of the penta EF hand subfamily which includes sorcin, calpain and ALG2. Grancalcin is highly expressed bone marrow and also can detected in neutrophils and macrophages. Grancalcin interacts with L-plastin which known to have actin bundling activity. It indicates that Grancalcin may play an important role in the adhesion of neutrophils to fibronectin. Furthermore, Grancalcin localization is dependent upon calcium and magnesium. It associates with both the granule and membrane fractions, which suggested a role for grancalcin in granule-membrane fusion and degranulation.</p> <p>Alternative Names: Grancalcin, GCA, GCL</p>
Molecular Weight:	50.3 kDa
UniProt:	P28676

Application Details

Restrictions:	For Research Use only
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Handling

Format:	Lyophilized
Reconstitution:	<p>It is not recommended to reconstitute to a concentration less than 100 µg/mL.</p> <p>Dissolve the lyophilized protein in ddH₂O.</p> <p>Please aliquot the reconstituted solution to minimize freeze-thaw cycles.</p>
Buffer:	Lyophilized from a 0.2 µm filtered solution of 20 mM TrisHCl, 500 mM NaCl, pH 8.5 .
Handling Advice:	Always centrifuge tubes before opening. Do not mix by vortex or pipetting.
Storage:	4 °C/-20 °C/-80 °C
Storage Comment:	<p>Lyophilized protein should be stored at < -20°C, though stable at room temperature for 3 weeks.</p> <p>Reconstituted protein solution can be stored at 4-7°C for 2-7 days.</p>

Handling

Aliquots of reconstituted samples are stable at $< -20^{\circ}\text{C}$ for 3 months.

Expiry Date: 3 months