Grancalcin/GCA Protein, Human (GST)

Cat. No.:	HY-P72635
Synonyms:	Grancalcin; GCA; GCL
Species:	Human
Source:	E. coli
Accession:	P28676 (M1-I217)
Gene ID:	25801
Molecular Weight:	Approximately 53 kDa

PROPERTIES

AA Sequence	M A Y P G Y G G G F G N F S I Q V P G M Q M G Q P V P E T G P A I L L D G Y S G P A Y S D T Y S S A G D S V Y T Y F S A V A G Q D G E V D A E E L Q R C L T Q S G I N G T Y S P F S L E T C R I M I A M L D R D H T G K M G F N A F K E L W A A L N A W K E N F M T V D Q D G S G T V E H H E L R Q A I G L M G Y R L S P Q T L T T I V K R Y S K N G R I F F D D Y V A C C V K L R A L T D F F R K R D H L Q Q G S A N F I Y D D F L Q G T M A I
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 μm filtered solution of 20 mM Tris-HCl, 4% Sucrose, 4% Mannitol, 0.02% Tween 80 (w/v), pH 8.0.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH_2O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	Grancalcin (GCA) is a calcium-binding protein with putative functions in neutrophil adhesion to fibronectin and the formation of focal adhesions. Its role in calcium binding suggests involvement in signaling pathways that regulate cellular adhesion processes. GCA is known to form homodimers and has interactions with SRI and LCP1, further implicating its participation in protein-protein interactions that could modulate cellular functions. It has to emphasize GCA's potential involvement in mediating neutrophil adhesion to fibronectin and suggests a role in the establishment of focal adhesions, shedding light on its significance in cellular adhesion and signaling pathways.

Caution: Product has not been fully validated for medical applications. For research use only.

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