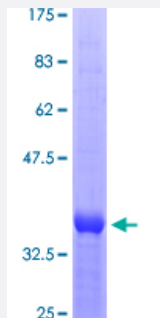


GRN (Human) Recombinant Protein (Q02)

Catalog # H00002896-Q02

Size 25 ug, 10 ug

Applications



Specification

Product Description	Human GRN partial ORF (NP_002078.1, 494 a.a. - 593 a.a.) C521Y mutant recombinant protein with GST-tag at N-terminal.
Sequence	SCEKEVVSAQPATFLARSPHVGVKDVEYGEHFCHDNQTCCRDNRQGWACCPYRQGVCCADRRHCCPAGFRCAARGTKCLRREAPRWDAPLRDPALRQLL
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	36.63
Interspecies Antigen Sequence	Rat (62)
Preparation Method	in vitro wheat germ expression system
Purification	Glutathione Sepharose 4 Fast Flow
Quality Control Testing	12.5% SDS-PAGE Stained with Coomassie Blue
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — GRN

Entrez GeneID [2896](#)

GeneBank Accession# [NM_002087](#)

Protein Accession# [NP_002078.1](#)

Gene Name GRN

Gene Alias GEP, GP88, PCDGF, PEPI, PGRN

Gene Description granulin

Omim ID [138945 607485](#)

Gene Ontology [Hyperlink](#)

Gene Summary

Granulins are a family of secreted, glycosylated peptides that are cleaved from a single precursor protein with 7.5 repeats of a highly conserved 12-cysteine granulin/epithelin motif. The 88 kDa precursor protein, progranulin, is also called proepithelin and PC cell-derived growth factor. Cleavage of the signal peptide produces mature granulin which can be further cleaved into a variety of active, 6 kDa peptides. These smaller cleavage products are named granulin A, granulin B, granulin C, etc. Epithelins 1 and 2 are synonymous with granulins A and B, respectively. Both the peptides and intact granulin protein regulate cell growth. However, different members of the granulin protein family may act as inhibitors, stimulators, or have dual actions on cell growth. Granulin family members are important in normal development, wound healing, and tumorigenesis. [provided by RefSeq]

Other Designations PC cell-derived growth factor|acrogranin|granulin-epithelin|proepithelin|progranulin

Disease

- [Alzheimer disease](#)
- [Amyotrophic lateral sclerosis](#)
- [Aphasia](#)
- [Atrophy](#)
- [Cardiovascular Diseases](#)
- [Cognition](#)
- [Dementia](#)
- [Diabetes Mellitus](#)
- [Edema](#)
- [Frontotemporal Dementia](#)
- [Frontotemporal Lobar Degeneration](#)
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