

Recombinant Human GRN, FLAG-tagged

Cat. No. GRN-28163TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human Granulin with a C terminal DDDDK tag; MWt: 90 kDa by SDS-PAGE.
Species	Human
Source	HEK293
ProteinLength	593 amino acids
Description	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.
Conjugation	FLAG
Molecular Weight	90.000kDa inclusive of tags

 Tel: 1-631-559-9269 1-516-512-3133

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Tissue specificity	In myelogenous leukemic cell lines of promonocytic, promyelocytic, and proerythroid lineage, in fibroblasts, and very strongly in epithelial cell lines. Present in inflammatory cells and bone marrow. Highest levels in kidney.
Biological activity	Activates ERK phosphorylation in THP-1 and MCF10A cells and induces cell migration of THP-1 monocytic leukemia cells.
Form	Liquid
Purity	>90% by SDS-PAGE
Storage buffer	Preservative: None Constituents: PBS
Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
Sequence Similarities	Belongs to the granulin family.

GENE INFORMATION

Gene Name	GRN granulin [Homo sapiens]
Official Symbol	GRN
Synonyms	GRN; granulin; granulins; PCDGF; PGRN; progranulin;
Gene ID	2896
mRNA Refseq	NM_002087
Protein Refseq	NP_002078

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MIM	138945
Uniprot ID	P28799
Chromosome Location	17q21.32
Function	cytokine activity; growth factor activity;

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