

Recombinant Human Mitogen-Activated Protein Kinase 11

Cat. No. GRN-4937H Lot. No. (See product label)

SPECIFICATION

Product Overview

Recombinant human GRN is a 88.0 kDa homodimeric protein and s a single, glycosylated, polypeptide chain containing 593 amino acids.

Species

Human

Source

HEK293

Description

GRN is a single precursor protein of granulins which 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. Granulins are a variety of active, 6.0 kDa peptides and named granulin A (epithelin, granulin B (epithelin 2), granulin C, etc. Both the peptides and intact progranulin 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.

Biological Activity

The effects of phospho-ERK1/2 and non phospho-ERK1/2 by human progranulin-FLAG in THP-1 cells. To examine the signal of phospho-p44/42 MAPK and p44/42 MAP kinase, reactions were carried out at 37°C 0, 30, 60, min, respectively by adding the recombinant protein (100 ng/ml) to the THP-1 monocyte cell, which was maintained with serum starvation for 24 hrs. Recombinant proteins in lanes 1, 2, and 3 were subjected to THP-1 monocyte cell treatments over 0, 30, 60 mins, respectively.

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Molecular Weight	88.0 kDa
Form	Sterile filtered clear solution in PBS.
Endotoxin Level	<0.1 ng/μg
Appearance	Liquid
Purity	≥90% by SDS-PAGE and ≥90% by HPLC
Storage	Progranulin although stable at 4°C for 3 weeks, should be stored at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).

GENE INFORMATION

Gene Name	GRN granulin [Homo sapiens]
Official Symbol	GRN
Synonyms	GRN; granulin; GEP; GP88; PEPI; PGRN; PCDGF; granulins; acrogranin; progranulin; proepithelin; granulin-epithelin; PC cell-derived growth factor
Gene ID	2896
mRNA Refseq	NM_002087
Protein Refseq	NP_002078
MIM	138945

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UniProt ID	P28799
Chromosome Location	17q21.32
Function	cytokine activity; growth factor activity

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