



[Go to Product page](#)

## Datasheet for ABIN6720018 Granulin ELISA Kit

### Overview

Quantity:	1 kit
Target:	Granulin (GRN)
Reactivity:	Mouse
Method Type:	Sandwich ELISA
Detection Range:	0.78 ng/mL - 50 ng/mL
Minimum Detection Limit:	0.78 ng/mL
Application:	ELISA

### Product Details

Purpose:	Sandwich ELISA for Quantitative Detection of Antigen
Sample Type:	Cell Culture Supernatant, Plasma (EDTA - heparin), Serum
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Characteristics:	<p>Synonyms: Acrogranin, CLN11, GEP, GP88, Granulin A, Granulin B, Granulin C, Granulin D, Granulin E, Granulin epithelin, Granulin F, Granulin G, Granulin-7, Granulins, GRN, GRN_HUMAN, PC cell derived growth factor, PCDGF, PEPI, PGRN, Proepithelin, Progranulin</p> <p>Background: Granulin, also known as Proepithelin(PEPI) is a protein that in humans is encoded by the GRN gene. This gene is mapped to 17q21.31. 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</p>

## Product Details

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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.

Gene Name: GRN

Production: Natural and recombinant mouse Progranulin. There is no detectable cross-reactivity with other relevant proteins.

Standard: Expression system for standard: NSO, Immunogen sequence: T18-L589

## Target Details

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Target: Granulin (GRN)

Alternative Name: Progranulin ([GRN Products](#))

Target Type: Viral Protein

Gene ID: 14824

NCBI Accession: [NP\\_032201](#)

UniProt: [P28798](#)

## Application Details

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Application Notes: Application Note: Useful in Sandwich ELISA for Quantitative Detection of Antigen. Aliquot 0.1 mL per well of the 50 ng/mL, 25 ng/mL, 12.5 ng/mL, 6.25 ng/mL, 3.12 ng/mL, 1.56 ng/mL, 0.78 ng/mL mouse Progranulin standard solutions into the precoated 96-well plate. Add 0.1 mL of the sample diluent buffer into the control well (Zero well). Add 0.1 mL of each properly diluted sample of mouse cell culture supernates, serum or plasma(heparin, EDTA) to each empty well. We recommend that each mouse Progranulin standard solution and each sample is measured in duplicate.

Blood Product Anticoagulant: Heparin Sodium

ELISA Dilution: 0.78 ng/mL-50 ng/mL

Other Performance Data: DOE: 2-8° C - 01/25/19 -20° C - 07/25/19

Sample Volume: 100 µL

Plate: Pre-coated

## Application Details

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Restrictions: For Research Use only

## Handling

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Storage: RT, 4 °C, -20 °C

Storage Comment: Store vials at 4°C prior to opening. Centrifuge product if not completely clear after standing at room temperature. This product is stable for 6 months at 4°C as an undiluted liquid. Dilute only prior to immediate use. For extended storage freeze at -20°C or below for 12 months. Avoid cycles of freezing and thawing.