

Datasheet for KOA0601**Human Progranulin ELISA Kit****Overview**

Description:	Human Progranulin AccuSignal ELISA Kit - KOA0601
Item No.:	KOA0601
Size:	1 Kit
Applications:	ELISA
Reactivity:	Human
Range:	1.56 ng/ml - 100 ng/ml

Product Details

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 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.
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
Detection Kit Type:	ELISA Kit
Detection Range:	1.56 ng/ml - 100 ng/ml
Sensitivity:	<50 pg/ml

Target Details

Gene Name:	GRN
Reactivity:	Human

Immunogen:	Expression system for standard: NSO; Immunogen sequence: T18-L593
Purity/Specificity:	Natural and recombinant human Progranulin. There is no detectable cross-reactivity with other relevant proteins.
Relevant Links:	• UniProtKB - P28799 • NCBI - NP_002078.1 • GeneID - 2896 • KOA0601 Protocol

Application Details

Tested Applications:	ELISA
Application Note:	Useful in Sandwich ELISA for Quantitative Detection of Antigen. Aliquot 0.1ml per well of the 100ng/ml, 50ng/ml, 25ng/ml, 1.25ng/ml, 6.25ng/ml, 3.12ng/ml, 1.56ng/ml human Progranulin standard solutions into the precoated 96-well plate. Add 0.1ml of the sample diluent buffer into the control well (Zero well). Add 0.1ml of each properly diluted sample of human cell culture supernates, serum, plasma (heparin, EDTA), saliva, urine or human milk to each empty well. We recommend that each human Progranulin standard solution and each sample is measured in duplicate.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
Other:	Detection Range: 1.56 ng/ml - 100 ng/ml DOE: @4°C 06/01/2023 @-20°C 12/01/2023

Formulation

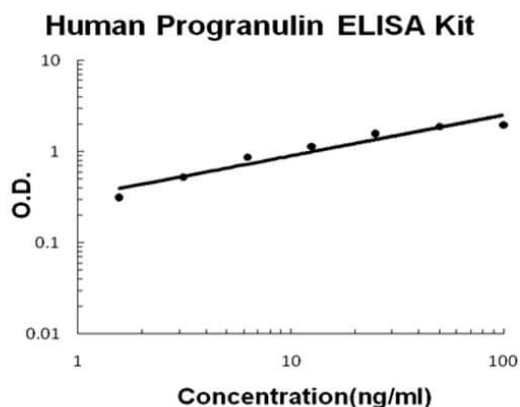
Concentration:	1 Kit
Anticoagulant:	Heparin Sodium

Shipping & Handling

Shipping Condition:	Wet Ice
Storage Condition:	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.

Expiration: See kit insert for complete instructions.

Images



ELISA

Human Progranulin AccuSignal ELISA Kit standard curve.
Assay Range: 1.56ng/ml-100ng/ml. Sensitivity: <50pg/ml.

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.