

ARG82973 Human Progranulin ELISA Kit

Package: 96 wells
Store at: 4°C

Summary

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| Product Description | ARG82973 Human Progranulin ELISA Kit is an Enzyme Immunoassay kit for the quantification of Human Progranulin in serum, plasma, cell culture supernatant samples. |
| Tested Reactivity | Hu |
| Tested Application | ELISA |
| Specificity | Cross-Reactivity: Not reacts with Human TNF RI, TNF RII and mouse Progranulin |
| Target Name | Progranulin |
| Conjugation | HRP |
| Conjugation Note | Substrate: TMB and read at 450 nm. |
| Sensitivity | 31.25 pg/ml |
| Sample Type | Serum, plasma and cell culture supernatants. |
| Standard Range | 62.5 - 4000 pg/ml |
| Sample Volume | 100 µl |
| Precision | Intra-Assay CV: less than 10% Inter-Assay CV: less than 10% |
| Alternate Names | PEPI; Glycoprotein 88; CLN11; GEP; Proepithelin; Granulin E; Granulin D; Granulins; PGRN; Glycoprotein of 88 Kda; Granulin G; Progranulin; PCDGF; Granulin B; Granulin C; Granulin A; GP88; Granulin F |

Application Instructions

Assay Time ~ 4 hours

Properties

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| Form | 96 well |
| Storage instruction | Store the kit at 2-8°C. Keep microplate wells sealed in a dry bag with desiccants. Do not expose test reagents to heat, sun or strong light during storage and usage. Please refer to the product user manual for detail temperatures of the components. |
| Note | For laboratory research only, not for drug, diagnostic or other use. |

Bioinformation

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| Gene Symbol | GRN |
| Gene Full Name | granulin |
| Background | 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, Jul 2008]

Function

Granulins have possible cytokine-like activity. They may play a role in inflammation, wound repair, and tissue remodeling.

Granulin-4 promotes proliferation of the epithelial cell line A431 in culture while granulin-3 acts as an antagonist to granulin-4, inhibiting the growth. [UniProt]

Highlight

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[Progranulin antibodies:](#) [Progranulin ELISA Kits:](#)

New ELISA data calculation tool:

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PTM

Granulins are disulfide bridged. [UniProt]