

ARG80970 Human GDF9 ELISA Kit

Package: 96 wells
Store at: 4°C

Component

Cat. No.	Component Name	Package	Temp
ARG80970-001	Antibody-coated microplate	96 wells	4°C
ARG80970-002	Standards A-F (Concentration: 62.5, 125, 250, 500, 1000, 2000 pg/ml)	6 vials X 0.5ml	4°C
ARG80970-003	Sample Diluent	6 ml	4°C
ARG80970-004	HRP-conjugated Antibody	10 ml	4°C
ARG80970-005	20X Wash buffer	25 ml	4°C
ARG80970-006	Chromogen solution A	6 ml	4°C (Protect from light)
ARG80970-007	Chromogen solution B	6 ml	4°C (Protect from light)
ARG80970-008	Plate sealer	2	RT
ARG80970-009	STOP solution	6 ml	4°C

Summary

Product Description	ARG80970 Human GDF9 ELISA Kit is an Enzyme Immunoassay kit for the quantification of Human GDF9 in cell culture supernatant, serum, plasma and other suitable sample solution.
Tested Reactivity	Hu
Tested Application	ELISA
Target Name	GDF9
Conjugation	HRP
Sensitivity	10 pg/ml
Sample Type	Cell culture supernatant, serum, plasma and other suitable sample solution.
Standard Range	62.5 - 2000 pg/ml
Sample Volume	50 µl
Alternate Names	GDF-9; Growth/differentiation factor 9

Application Instructions

Assay Time	90 min
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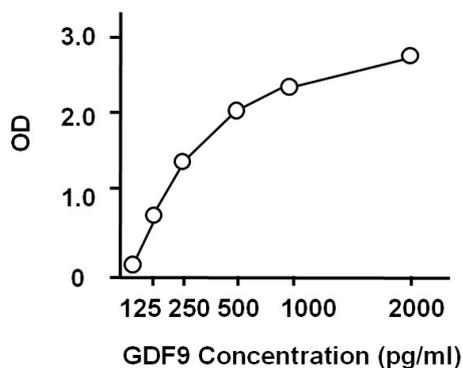
Properties

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

Database links	GeneID: 2661 Human Swiss-port # O60383 Human
Gene Symbol	GDF9
Gene Full Name	growth differentiation factor 9
Background	This gene encodes a member of the transforming growth factor-beta superfamily. The encoded preproprotein is processed into a secreted factor that is required for ovarian folliculogenesis. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jan 2014]
Function	GDF9 (growth differentiation factor 9) is required for ovarian folliculogenesis. Promotes primordial follicle development. Stimulates granulosa cell proliferation. Promotes cell transition from G0/G1 to S and G2/M phases, through an increase of CCND1 and CCNE1 expression, and RB1 phosphorylation. It regulates STAR expression and cAMP-dependent progesterone release in granulosa and thecal cells. Attenuates the suppressive effects of activin A on STAR expression and progesterone production by increasing the expression of inhibin B. It suppresses FST and FSTL3 production in granulosa-lutein cells. [UniProt]
Highlight	Related products: GDF9 antibodies ; GDF9 ELISA Kits ; GDF9 recombinant proteins ; New ELISA data calculation tool: Simplify the ELISA analysis by GainData
Research Area	Cell Biology and Cellular Response kit; Developmental Biology kit; Signaling Transduction kit
PTM	Phosphorylated; phosphorylation is critical for GDF9 function. In vitro, can be phosphorylated by CK at Ser-325.

Images



ARG80970 Human GDF9 ELISA Kit standard curve image

ARG80970 Human GDF9 ELISA Kit results of a typical standard run with optical density reading at 450 nm.