

ARG83027 Human CXCL1 / GRO alpha ELISA Kit

Package: 96 wells
Store at: 4°C

Summary

Product Description	ARG83027 Human CXCL1 / GRO alpha ELISA Kit is an Enzyme Immunoassay kit for the quantification of Human CXCL1 / GRO alpha in serum, plasma (heparin), ascites, urine and cell culture supernatants.
Tested Reactivity	Hu
Tested Application	ELISA
Specificity	Not cross-reacts with: Human GRO beta, IL8, RANTES, ENA78, MIP1 alpha, MIP1 beta, NAP2, MCP-1. Mouse KC, MIP1alpha, MIP1 beta, MIP2. Rat CINC1.
Target Name	CXCL1 / GRO alpha
Conjugation	HRP
Conjugation Note	Substrate: TMB and read at 450 nm.
Sensitivity	15.6 pg/ml
Sample Type	Serum, plasma (heparin), ascites, urine and cell culture supernatants.
Standard Range	31.3 - 2000 pg/ml
Sample Volume	100 µl
Precision	Intra-Assay CV: less than 10% Inter-Assay CV: less than 10%
Alternate Names	CXCL1, C X C Motif Chemokine Ligand , SCYB, NAP-3, MGSA A, GROa, GRO1, MGSA, Chemokine (C-X-C Motif) Ligand 1 (Melanoma Growth Stimulating Activity, Alpha), GRO1 Oncogene (Melanoma Growth Stimulating Activity, Alpha), Melanoma Growth Stimulating Activity, Alpha, Neutrophil-Activating Protein 3, Growth-Regulated Alpha Protein, Fibroblast Secretory Protein, C-X-C Motif Chemokine , GRO-Alpha(1-73), FSP, GRO1 Oncogene (Melanoma Growth-Stimulating Activity), Melanoma Growth Stimulatory Activity Alpha, Melanoma Growth Stimulatory Activity, MGSA Alpha, GROA, GRO

Application Instructions

Assay Time ~ 4 hours

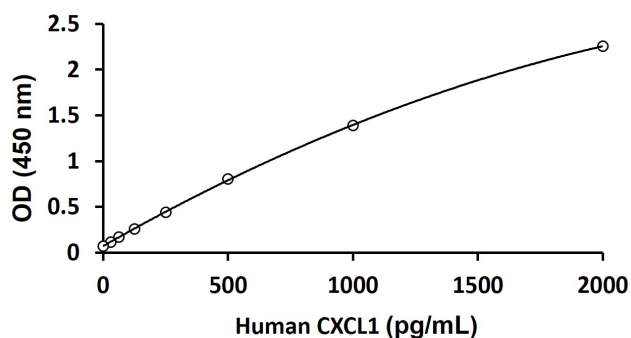
Properties

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

Gene Symbol	CXCL1
Gene Full Name	C-X-C Motif Chemokine Ligand 1
Background	This antimicrobial gene encodes a member of the CXC subfamily of chemokines. The encoded protein is a secreted growth factor that signals through the G-protein coupled receptor, CXC receptor 2. This protein plays a role in inflammation and as a chemoattractant for neutrophils. Aberrant expression of this protein is associated with the growth and progression of certain tumors. A naturally occurring processed form of this protein has increased chemotactic activity. Alternate splicing results in coding and non-coding variants of this gene. A pseudogene of this gene is found on chromosome 4. [provided by RefSeq, Sep 2014]
Function	Has chemotactic activity for neutrophils. May play a role in inflammation and exerts its effects on endothelial cells in an autocrine fashion. In vitro, the processed forms GRO-alpha(4-73), GRO-alpha(5-73) and GRO-alpha(6-73) show a 30-fold higher chemotactic activity. [UniProt]
Highlight	Related products: CXCL1 antibodies ; CXCL1 ELISA Kits ; Related news: Immune signaling protein TLR4 has opposing roles in breast cancer development New ELISA data calculation tool: Simplify the ELISA analysis by GainData
PTM	N-terminal processed forms GRO-alpha(4-73), GRO-alpha(5-73) and GRO-alpha(6-73) are produced by proteolytic cleavage after secretion from peripheral blood monocytes. [UniProt]
Cellular Localization	Secreted. [UniProt]

Images



ARG83027 Human CXCL1 / GRO alpha ELISA Kit standard curve image

ARG83027 Human CXCL1 / GRO alpha ELISA Kit results of standard run with optical density reading at 450 nm