

ARG81631 Human CXCL1 / GRO alpha ELISA Kit

Package: 96 wells
Store at: 4°C

Component

Cat. No.	Component Name	Package	Temp
ARG81631-001	Antibody-coated microplate	8 X 12 strips	4°C. Unused strips should be sealed tightly in the air-tight pouch.
ARG81631-002	Standard	2 X 10 ng/vial	4°C
ARG81631-003	Standard/Sample diluent	30 ml (Ready to use)	4°C
ARG81631-004	Antibody conjugate concentrate (100X)	1 vial (100 µl)	4°C
ARG81631-005	Antibody diluent buffer	12 ml (Ready to use)	4°C
ARG81631-006	HRP-Streptavidin concentrate (100X)	1 vial (100 µl)	4°C
ARG81631-007	HRP-Streptavidin diluent buffer	12 ml (Ready to use)	4°C
ARG81631-008	25X Wash buffer	20 ml	4°C
ARG81631-009	TMB substrate	10 ml (Ready to use)	4°C (Protect from light)
ARG81631-010	STOP solution	10 ml (Ready to use)	4°C
ARG81631-011	Plate sealer	4 strips	Room temperature

Summary

Product Description	ARG81631 HumanCXCL1 / GRO alpha ELISA Kit is an Enzyme Immunoassay kit for the quantification of Human CXCL1 / GRO alpha in serum, plasma (heparin, EDTA, citrate) and cell culture supernatants.
Tested Reactivity	Hu
Tested Application	ELISA
Specificity	No significant cross-reactivity or interference with 1 ng/ml of human recombinant CXCL2 and CXCL3.
Target Name	CXCL1 / GRO alpha
Conjugation	HRP
Conjugation Note	Substrate: TMB and read at 450 nm.
Sensitivity	7.8 pg/ml
Sample Type	Serum, plasma (heparin, EDTA, citrate) and cell culture supernatants.
Standard Range	15.6 - 1000 pg/ml
Sample Volume	100 µl

Precision	Intra-Assay CV: 6.2% Inter-Assay CV: 7.2%
Alternate Names	Growth-regulated alpha protein; SCYB1; Melanoma growth stimulatory activity; MGSA-a; GRO-alpha; GROa; NAP-3; FSP; 5-73; C-X-C motif chemokine 1; Neutrophil-activating protein 3; 6-73; 1-73; GRO1; MGSA; 4-73

Application Instructions

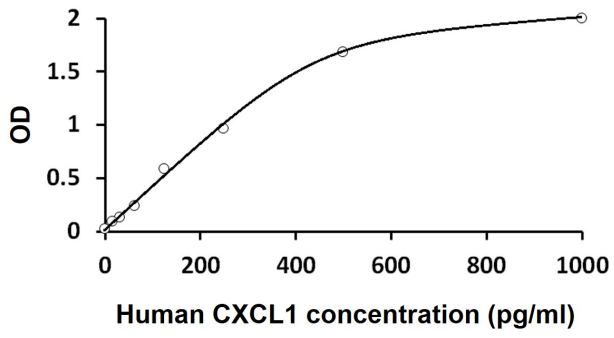
Assay Time	~ 5 hours
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Properties

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

Gene Symbol	CXCL1
Gene Full Name	chemokine (C-X-C motif) ligand 1 (melanoma growth stimulating activity, alpha)
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: CXCL antibodies ; CXCL ELISA Kits ; CXCL Duos / Panels ; CXCL recombinant proteins ; 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]



ARG81631 Human CXCL1 / GRO alpha ELISA Kit standard curve image

ARG81631 Human CXCL1 / GRO alpha ELISA Kit results of a typical standard run with optical density reading at 450 nm.