

ARG81879 Rat HGF ELISA Kit

Package: 96 wells
Store at: 4°C

Component

Cat. No.	Component Name	Package	Temp
ARG81879-001	Antibody-coated microplate	8 X 12 strips	4°C. Unused strips should be sealed tightly in the air-tight pouch.
ARG81879-002	Standard	2 X 10 ng/vial	4°C
ARG81879-003	Standard/Sample diluent	30 ml (Ready to use)	4°C
ARG81879-004	Antibody conjugate concentrate (100X)	1 vial (100 µl)	4°C
ARG81879-005	Antibody diluent buffer	12 ml (Ready to use)	4°C
ARG81879-006	HRP-Streptavidin concentrate (100X)	1 vial (100 µl)	4°C
ARG81879-007	HRP-Streptavidin diluent buffer	12 ml (Ready to use)	4°C
ARG81879-008	25X Wash buffer	20 ml	4°C
ARG81879-009	TMB substrate	10 ml (Ready to use)	4°C (Protect from light)
ARG81879-010	STOP solution	10 ml (Ready to use)	4°C
ARG81879-011	Plate sealer	4 strips	Room temperature

Summary

Product Description	ARG81879 Rat HGF ELISA Kit is an Enzyme Immunoassay kit for the quantification of Rat HGF in serum, plasma (EDTA, citrate) and cell culture supernatants.
Tested Reactivity	Rat
Tested Application	ELISA
Specificity	There is no detectable cross-reactivity with other relevant proteins.
Target Name	HGF
Conjugation	HRP
Conjugation Note	Substrate: TMB and read at 450 nm.
Sensitivity	78 pg/ml
Sample Type	Serum, plasma (EDTA, citrate) and cell culture supernatants.
Standard Range	156 - 10000 pg/ml
Sample Volume	100 µl

Precision	Intra-Assay CV: 7.0%; Inter-Assay CV: 8.0%
Alternate Names	HPTA; Scatter factor; F-TCF; Hepatocyte growth factor; DFNB39; Hepatopoietin-A; HGFB; SF

Application Instructions

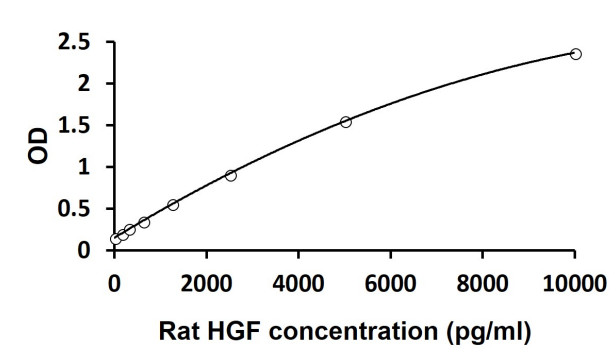
Assay Time	~ 5 hours
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Properties

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	HGF
Gene Full Name	hepatocyte growth factor (hepatopoietin A; scatter factor)
Background	Hepatocyte growth factor regulates cell growth, cell motility, and morphogenesis by activating a tyrosine kinase signaling cascade after binding to the proto-oncogenic c-Met receptor. Hepatocyte growth factor is secreted by mesenchymal cells and acts as a multi-functional cytokine on cells of mainly epithelial origin. Its ability to stimulate mitogenesis, cell motility, and matrix invasion gives it a central role in angiogenesis, tumorigenesis, and tissue regeneration. It is secreted as a single inactive polypeptide and is cleaved by serine proteases into a 69-kDa alpha-chain and 34-kDa beta-chain. A disulfide bond between the alpha and beta chains produces the active, heterodimeric molecule. The protein belongs to the plasminogen subfamily of S1 peptidases but has no detectable protease activity. Alternative splicing of this gene produces multiple transcript variants encoding different isoforms. [provided by RefSeq, Jul 2008]
Function	Potent mitogen for mature parenchymal hepatocyte cells, seems to be a hepatotrophic factor, and acts as a growth factor for a broad spectrum of tissues and cell types. Activating ligand for the receptor tyrosine kinase MET by binding to it and promoting its dimerization. [UniProt]
Highlight	Related products: HGF antibodies ; HGF ELISA Kits ; HGF recombinant proteins ; New ELISA data calculation tool: Simplify the ELISA analysis by GainData



ARG81879 Rat HGF ELISA Kit standard curve image

ARG81879 Rat HGF ELISA Kit results of a typical standard run with optical density reading at 450 nm.