

Rat HGF ELISA Kit | HGF elisa kit

Rat HGF PicoKine ELISA Kit

CATALOG #
AAA11618

REACTIVITY
Rat

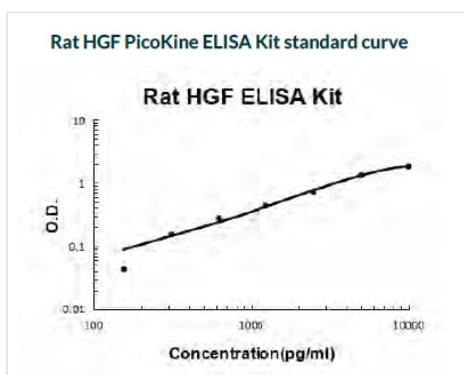
PRODUCT SYNONYMS

HGF; Rat HGF PicoKine ELISA Kit; Hepatocyte growth factor; hepatocyte growth factor (hepapoietin A; scatter factor); DFNB39; F TCF; Fibroblast derived tumor cytotoxic factor; Hepapoietin A; Hepatocyte growth factor (hepapoietin A scatter factor; Hepatocyte growth factor beta chain; Hepatopoietin-A; Hgf; HGF_HUMAN; HGFB; HPTA; Lung fibroblast derived mitogen; Scatter factor; SF; HGF elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Rat
Specificity	Natural and recombinant Rat Hgf
Sequence Length	728
Samples	Cell culture supernatants, serum and plasma (EDTA, citrate)
Detection Range	156 pg/ml - 10,000 pg/ml
Sensitivity	<10 pg/ml
Intra-assay Precision	Intra-Assay Precision (Precision within an assay): Three samples of known concentration were tested on one plate to assess intra-assay precision.
Inter-assay Precision	Inter-Assay Precision (Precision across assays): Three samples of known concentration were tested in separate assays to assess inter-assay precision.
Preparation and Storage	Store at 4 degree C for 6 months, at -20 degree C for 12 months. Avoid multiple freeze-thaw cycles (Shipped with wet ice.)

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for HGF elisa kit	Background: Hepatocyte growth factor (HGF) is the most potent mitogen for mature parenchymal hepatocytes in primary culture, and seems to be a hepatotrophic factor that acts as a trigger for liver regeneration after partial hepatectomy and liver injury. HGF has a relative molecular mass (Mr) of 82,000 and is a heterodimer composed of a large alpha-subunit of Mr 69,000 and a small beta-subunit of Mr 34,000.¹ The protein consists of 728 amino acid residues, including a possible signal peptide at the N-terminus.² HGF may serve as a paracrine mediator to control placental development and growth.³ This growth factor may play an important role as a paracrine mediator of the proliferation of melanocytes and endothelial cells, as well as cells of epithelial origin.⁴ The gene encoding the human HGF is assigned to human chromosome 7. Principle of the Assay: The Picokine™ Rat Hgf Pre-Coated ELISA (Enzyme-Linked Immunosorbent Assay) kit is a solid-phase immunoassay specially designed to measure Rat Hgf with a 96-well strip plate that is pre-coated with antibody specific for Hgf. The detection antibody is a biotinylated antibody specific for Hgf. The capture antibody is monoclonal antibody from mouse and the detection antibody is polyclonal antibody from goat. The kit includes Rat Hgf protein as standards. To measure Rat Hgf, add standards and samples to the wells, then add the biotinylated detection antibody. Wash the wells with PBS or TBS buffer, and add Avidin-Biotin-Peroxidase Complex (ABC-HRP). Wash away the unbounded ABC-HRP with PBS or TBS buffer and add TMB. TMB is an HRP substrate and will be catalyzed to produce a blue color product, which changes into yellow after adding the acidic stop solution. The absorbance of the yellow product at 450nm is linearly proportional to Rat Hgf in the sample. Read the absorbance of the yellow product in each well using a plate reader, and benchmark the sample wells' readings against the standard curve to determine the concentration of Rat Hgf in the sample.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	123117
NCBI GeneID	24446
UniProt Accession #	P17945
Molecular Weight	82,906 Da
NCBI Official Full Name	Hepatocyte growth factor
NCBI Official Synonym Full Names	hepatocyte growth factor
NCBI Official Symbol	Hgf
NCBI Official Synonym Symbols	HPTA
NCBI Protein Information	hepatocyte growth factor; SF; scatter factor; hepatopoeitin-A; hepatopoietin-A
UniProt Protein Name	Hepatocyte growth factor
UniProt Gene Name	Hgf
UniProt Synonym Gene Names	SF
UniProt Entry Name	HGF_RAT

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.