

Rat Growth Differentiation Factor 5 (GDF5) ELISA Kit | GDF5 elisa kit

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CATALOG #
AAA64858

REACTIVITY
Rat

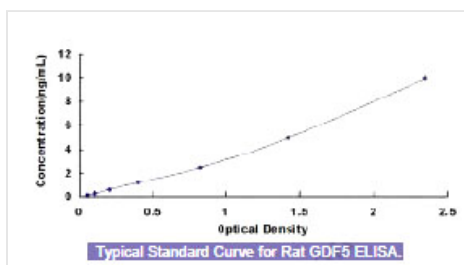
PRODUCT SYNONYMS

Growth Differentiation Factor 5 (GDF5); Rat Growth Differentiation Factor 5 (GDF5) ELISA Kit; CDMP1; LAP4; SYNS2; BMP14; Radotermis; Cartilage-Derived Morphogenetic Protein-1; Bone morphogenetic protein 14; Lipopolysaccharide-associated protein 4; GDF5 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Rat
Specificity	This assay has high sensitivity and excellent specificity for detection of GDF5. No significant cross-reactivity or interference between GDF5 and analogues was observed.
Sequence Length	495
Samples	Serum, plasma, tissue homogenates and other biological fluids.
Assay Type	Sandwich
Detection Range	0.156-10ng/mL
Sensitivity	0.066ng/mL
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level GDF5 were tested 20 times on one plate, respectively. Intra-Assay: CV<10%
Inter-assay Precision	Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level GDF5 were tested on 3 different plates, 8 replicates in each plate. CV(%) = SD/meanX100. Inter-Assay: CV<12%
Preparation and Storage	For unopened kit, all reagents should be kept according to the labels on vials. The TMB Substrate, Wash Buffer, Stop Solution should be stored at 4 degree C. All others should be stored at -20 degree C.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for GDF5 elisa kit	Intended Uses: The kit is a sandwich enzyme immunoassay for in vitro quantitative measurement of GDF5 in rat serum, plasma, tissue homogenates and other biological fluids. Principle of the Assay: The microtiter plate provided in this kit has been pre-coated with an antibody specific to GDF5. Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody preparation specific to GDF5. Next, Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. After TMB substrate solution is added, only those wells that contain GDF5, biotin-conjugated antibody and enzyme-conjugated Avidin will exhibit a change in color. The enzyme-substrate reaction is terminated by the addition of sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of 450nm +/- 10nm. The concentration of GDF5 in the samples is then determined by comparing the O.D. of the samples to the standard curve.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	109471161
NCBI GeneID	252835
NCBI Accession #	XP_001066344.1
NCBI GenBank Nucleotide #	XP_001066344.1
UniProt Accession #	M0RAY4
Molecular Weight	54,748 Da
NCBI Official Full Name	growth/differentiation factor 5
NCBI Official Synonym Full Names	growth differentiation factor 5
NCBI Official Symbol	Gdf5
NCBI Official Synonym Symbols	Cdmp1
NCBI Protein Information	growth differentiation factor 5
UniProt Protein Name	Protein Gdf5
UniProt Gene Name	Gdf5

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.