

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

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CATALOG # AAA189275	REACTIVITY Human	APPLICATIONS ELISA
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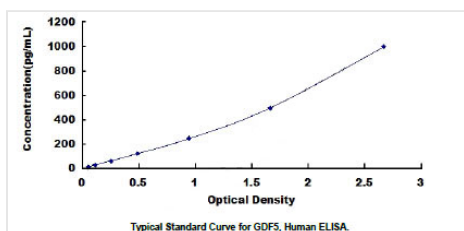
PRODUCT SYNONYMS

Instant Growth Differentiation Factor 5 (GDF5); Instant 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	Human
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.
Samples	Serum, plasma, tissue homogenates, cell lysates, cell culture supernates and other biological fluids
Assay Type	Quantitative Sandwich
Detection Range	15.6-1,000pg/mL
Sensitivity	< 6.2pg/mL
Applicable Applications for GDF5 elisa kit	ELISA
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	The stability of kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition. To minimize extra influence on the performance, operation procedures and lab conditions, especially room temperature, air humidity, incubator temperature should be strictly controlled. It is also strongly suggested that the whole assay is performed by the same operator from the beginning to the end.

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 human serum, plasma, tissue homogenates, cell lysates, cell culture supernates and other biological fluids. Principle of the Assay: The microplate provided in this kit has been pre-coated with an antibody specific to GDF5. Standards or samples are then added to the appropriate microplate wells with a biotin-conjugated antibody 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 #	20141384
NCBI GeneID	8200
UniProt Accession #	P43026; Q96SB1; E1P5Q2
Molecular Weight	Observed: 55kDa Calculated: 55kDa
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	OS5; LAP4; BDA1C; BMP14; CDMP1; LAP-4; SYM1B; SYNS2; BMP-14
NCBI Protein Information	growth/differentiation factor 5; CDMP-1; radotermis; LPS-associated protein 4; bone morphogenetic protein 14; lipopolysaccharide-associated protein 4; cartilage-derived morphogenetic protein-1
UniProt Protein Name	Growth/differentiation factor 5
UniProt Gene Name	GDF5
UniProt Synonym Gene Names	BMP14; CDMP1; GDF-5; BMP-14; CDMP-1; LAP-4; LPS-associated protein 4
UniProt Entry Name	GDF5_HUMAN

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.

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Online datasheet: <https://www.aaabiotech.com/human-elisa-kits/instant-growth-differentiation-factor-5-gdf5/189275>