

Human Growth Differentiation Factor 7 ELISA Kit | GDF7 elisa kit

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CATALOG #
AAA101957

REACTIVITY
Human

PRODUCT SYNONYMS

Growth Differentiation Factor 7; Human Growth Differentiation Factor 7 ELISA Kit; GDF7/BMP-12/BMP12/GDF-7/growth differentiation factor 7/growth/differentiation factor 7; GDF7 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	This assay has high sensitivity and excellent specificity for detection of GDF3. No significant cross-reactivity or interference between GDF3 and analogues was observed.
Sequence Length	453
Assay Type	Sandwich ELISA, Double Antibody
Samples	Serum, Plasma, Cell Culture Supernatant, cell or tissue lysate, Other liquid samples
Detection Range	62.5-4000pg/ml
Sensitivity	37.5pg/ml
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level GDF3 were tested 20 times on one plate, respectively. Intra-Assay: CV<8%
Inter-assay Precision	Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level GDF3 were tested on 3 different plates, 8 replicates in each plate. CV (%) = SD/meanX100. Inter-Assay: CV<10%
Preparation and Storage	Store entire kit at 2-8C for short-term. For longer-term, please store the microplate & standard at -20C, while the remaining reagents can be stored at 2-8C

IMAGES

Typical Data & Standard Curve

Results of a typical standard operation of a GDF7 ELISA Kit are listed below. This standard curve was generated at our lab for demonstration purpose only. Users shall obtain standard curve as per experiment by themselves. (N/A=not applicable)

X	pg/ml	0	62.5	125	250	500	1000	2000	4000
Y	OD450	0.096	0.165	0.238	0.411	0.668	1.192	1.974	2.660

Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for GDF7 elisa kit

Principle of the Assay: This kit was based on sandwich enzyme-linked immune-sorbent assay technology. Anti-GDF3 antibody was pre-coated onto 96-well plates. And the biotin conjugated anti-GDF3 antibody was used as detection antibodies. The standards, test samples and biotin conjugated detection antibody were added to the wells subsequently, and washed with wash buffer. HRP-Streptavidin was added and unbound conjugates were washed away with wash buffer. TMB substrates were used to visualize HRP enzymatic reaction. TMB was catalyzed by HRP to produce a blue color product that changed into yellow after adding acidic stop solution. The density of yellow is proportional to the GDF3 amount of sample captured in plate. Read the O.D. absorbance at 450nm in a microplate reader, and then the concentration of GDF3 can be calculated.

NCBI AND UNIPROT INFORMATION

NCBI GI #	40786371
NCBI GeneID	151449
Molecular Weight	46,950 Da
NCBI Official Full Name	growth differentiation factor 7
NCBI Official Synonym Full Names	growth differentiation factor 7
NCBI Official Symbol	GDF7
NCBI Official Synonym Symbols	BMP12
NCBI Protein Information	growth/differentiation factor 7
UniProt Protein Name	Growth/differentiation factor 7
UniProt Gene Name	GDF7
UniProt Synonym Gene Names	GDF-7
UniProt Entry Name	GDF7_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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/gdf7-human-elisa-kits/growth-differentiation-factor-7/101957>