Growth Differentiation Factor 2 (GDF2) ELISA Kit for Goose

PRODUCT OVERVIEW

Product Name	Growth Differentiation Factor 2 (GDF2), ELISA Kit
Full Product Name	Goose Growth Differentiation Factor 2 ELISA Kit
Product Gene Name	GDF2 elisa kit
Species Reactivity	Goose
Assay Type	Sandwich
Preparation and Storage	Store all reagents at 2-8 degree C
Molecular Weight	47,320 Da
Chromosome Location	Chromosome: 10; NC_000010.10 (48413092..48416853, complement). Location: 10q11.22
OMIM	605120
3D Structure	ModBase 3D Structure for Q9UK05
Related Product Information for GDF2 elisa kit	MBS036096 is a ready-to-use microwell, strip-or-full plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the Growth Differentiation Factor 2 (GDF2) ELISA Kit target analytes in biological samples. The concentration gradients of the kit standards or positive controls render a theoretical kit detection range in biological research samples containing GDF2. The ELISA analytical biochemical technique of the MBS036096 kit is based on GDF2 antibody-GDF2 antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect GDF2 antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, GDF2. Appropriate sample types may include undiluted body fluids and/or tissue homogenates, secretions. Quality control assays assessing reproducibility identified the intra-assay CV (%) and inter-assay CV(%).
Other Notes	Small volumes of GDF2 elisa kit vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for GDF2. It may not necessarily be applicable to this product.

NCBI GI #	7705308
NCBI GeneID	2658
NCBI Accession #	NP_057288.1
UniProt Primary Accession #	Q9UK05
UniProt Secondary Accession #	Q5VSQ9; Q9Y571
UniProt Related Accession #	Q9UK05
GenBank Nucleotide #	NM_016204.1
NCBI Official Full Name	growth/differentiation factor 2
NCBI Official Synonym Full Names	growth differentiation factor 2
NCBI Official Symbol	GDF2
NCBI Official Synonym Symbols	BMP9; BMP-9
UniProt Protein Name	Growth/differentiation factor 2

UniProt Synonym Protein Names	Bone morphogenetic protein 9
Protein Family	Growth/differentiation factor
UniProt Gene Name	GDF2
UniProt Synonym Gene Names	BMP9; GDF-2; BMP-9
UniProt Entry Name	GDF2_HUMAN
NCBI Protein Information	growth/differentiation factor 2; GDF-2; bone morphogenetic protein 9
NCBI Summary for GDF2	The protein encoded by this gene is a member of the bone morphogenetic protein (BMP) family and the TGF-beta superfamily. This group of proteins is characterized by a polybasic proteolytic processing site which is cleaved to produce a mature protein containing seven conserved cysteine residues. The members of this family are regulators of cell growth and differentiation in both embryonic and adult tissues. Studies in rodents suggest that this protein plays a role in the adult liver and in differentiation of cholinergic central nervous system neurons. [provided by RefSeq, Jul 2008]
UniProt Comments for GDF2	GDF2: Could be involved in bone formation. Belongs to the TGF-beta family. Protein type: Secreted; Secreted, signal peptide Chromosomal Location of Human Ortholog: 10q11.22 Cellular Component: extracellular space Molecular Function: protein binding; growth factor activity; cytokine activity; transforming growth factor beta receptor binding Biological Process: cellular iron ion homeostasis; positive regulation of transcription, DNA-dependent; activin receptor signaling pathway; regulation of apoptosis; BMP signaling pathway; positive regulation of interleukin-8 production; positive regulation of endothelial cell differentiation; angiogenesis; vasculogenesis; positive regulation of BMP signaling pathway; ossification; negative regulation of blood vessel endothelial cell migration; osteoblast differentiation; patterning of blood vessels; positive regulation of osteoblast differentiation; negative regulation of angiogenesis; positive regulation of angiogenesis; negative regulation of DNA replication; cartilage development; regulation of MAPKKK cascade; negative regulation of endothelial cell proliferation; blood vessel morphogenesis; positive regulation of transcription from RNA polymerase II promoter; positive regulation of endothelial cell proliferation; negative regulation of cell growth; cell development; growth Disease: Telangiectasia, Hereditary Hemorrhagic, Type 5
Research Articles on GDF2	**1.** the enhanced expression of BMP-9 in osteosarcoma cells by adBMP-9 exerted inhibitory effects on growth and migration of osteosarcoma cells possibly via blockade of the PI3K/AKT signaling pathway.
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