

# Product datasheet

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## ARG82352 Mouse GDF5 ELISA Kit

Package: 96 wells Store at: 4°C

## Component

Cat. No.	Component Name	Package	Temp
ARG82352-001	Antibody-coated microplate	8 X 12 strips	4°C. Unused strips should be sealed tightly in the air-tight pouch.
ARG82352-002	Standard	2 X 10 ng/vial	4°C
ARG82352-003	Standard/Sample diluent	30 ml (Ready to use)	4°C
ARG82352-004	Antibody conjugate concentrate (100X)	1 vial (100 μl)	4°C
ARG82352-005	Antibody diluent buffer	12 ml (Ready to use)	4°C
ARG82352-006	HRP-Streptavidin concentrate (100X)	1 vial (100 μl)	4°C
ARG82352-007	HRP-Streptavidin diluent buffer	12 ml (Ready to use)	4°C
ARG82352-008	25X Wash buffer	20 ml	4°C
ARG82352-009	TMB substrate	10 ml (Ready to use)	4°C (Protect from light)
ARG82352-010	STOP solution	10 ml (Ready to use)	4°C
ARG82352-011	Plate sealer	4 strips	Room temperature

### Summary

Product Description	ARG82352 Mouse GDF5 ELISA Kit is an Enzyme Immunoassay kit for the quantification of Mouse GDF5 in serum, plasma (EDTA, heparin) and cell culture supernatants.	
Tested Reactivity	Ms	
Tested Application	ELISA	
Target Name	GDF5	
Conjugation	HRP	
Conjugation Note	tivity 15.6 pg/ml  le Type Serum, plasma (EDTA, heparin) and cell culture supernatants.  ard Range 31.2 - 2000 pg/ml	
Sensitivity		
Sample Type		
Standard Range		
Sample Volume		
Precision	Intra-Assay CV: 7.0% Inter-Assay CV: 7.3%	

LAP-4; CDMP-1; Cartilage-derived morphogenetic protein 1; SYM1B; GDF-5; Radotermin; BDA1C; OS5; LAP4; Bone morphogenetic protein 14; BMP-14; BMP14; Lipopolysaccharide-associated protein 4; LPS-associated protein 4; SYNS2; Growth/differentiation factor 5; CDMP1

#### **Application Instructions**

**Assay Time** 

~ 5 hours

#### **Properties**

Form

96 well

Storage instruction

Store the kit at 2-8°C. Keep microplate wells sealed in a dry bag with desiccants. Do not expose test reagents to heat, sun or strong light during storage and usage. Please refer to the product user manual for detail temperatures of the components.

Note

For laboratory research only, not for drug, diagnostic or other use.

#### Bioinformation

Gene Symbol

GDF5

Gene Full Name

growth differentiation factor 5

Background

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. Mutations in this gene are associated with acromesomelic dysplasia, Hunter-Thompson type; brachydactyly, type C; and chondrodysplasia, Grebe type. These associations confirm that the gene product plays a role in skeletal development. [provided by RefSeq, Jul 2008]

Function

Growth factor involved in bone and cartilage formation. During cartilage development regulates differentiation of chondrogenic tissue through two pathways. Firstly, positively regulates differentiation of chondrogenic tissue through its binding of high affinity with BMPR1B and of less affinity with BMPR1A, leading to induction of SMAD1-SMAD5-SMAD8 complex phosphorylation and then SMAD protein signaling transduction. Secondly, negatively regulates chondrogenic differentiation through its interaction with NOG. Required to prevent excessive muscle loss upon denervation. This function requires SMAD4 and is mediated by phosphorylated SMAD1/5/8 (By similarity). Binds bacterial lipopolysaccharide (LPS) and mediates LPS-induced inflammatory response, including TNF secretion by monocytes. [UniProt]

Highlight

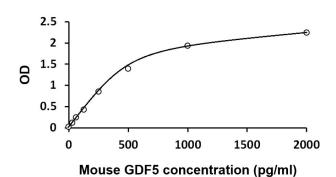
Related products:

GDF5 ELISA Kits; GDF5 recombinant proteins;

New ELISA data calculation tool: Simplify the ELISA analysis by GainData

Cellular Localization

Secreted. Cell membrane. [UniProt]



### ARG82352 Mouse GDF5 ELISA Kit standard curve image

ARG82352 Mouse GDF5 ELISA Kit results of a typical standard run with optical density reading at 450 nm.