

Product datasheet

info@arigobio.com

ARG83210 Porcine GDF5 ELISA Kit

Package: 96 wells Store at: 4°C

Summary

Product Description ARG83210 Porcine GDF5 ELISA Kit is an Enzyme Immunoassay kit for the quantification of Porcine GDF5

in Serum, Plasma and Cell culture supernatants.

Tested Reactivity Pig

Tested Application ELISA

Specificity There is no detectable cross-reactivity with other relevant proteins.

Target Name GDF5

Conjugation HRP

Conjugation Note Substrate: TMB and read at 450 nm.

Sensitivity 15 pg/ml

Detection Range 31.2 pg/ml - 2,000 pg/ml

Sample Type Serum, Plasma and Cell culture supernatants

Precision Intra-Assay CV: 7.2%

Inter-Assay CV: 8.2%

Alternate Names 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;

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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]

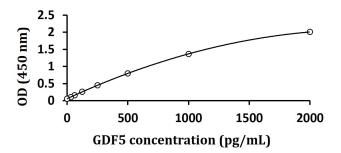
Highlight Related products:

GDF5 ELISA Kits; GDF5 recombinant proteins;

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

Cellular Localization Secreted. Cell membrane. [UniProt]

Images



ARG83210 Porcine GDF5 ELISA Kit standard curve image

ARG83210 Porcine GDF5 ELISA Kit results of a typical standard run with optical density reading at 450 nm.