

Datasheet for ABIN935396 **GDF5 Protein**



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Overview

Quantity:	50 µg
Target:	GDF5
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Biological Activity:	Active

Product Details

Sequence:	APSATRQGKR PSKNLKARCS RKALHVNFKD MGWDDWIIAP LEYEAHFCEG LCEFPLRSHL EPTNHAVIQT LMNSMDPEST PPTCCVPTRL SPISILFIDS ANNVVYKQYE DMVVESCGCR
Characteristics:	Purified recombinant Human GDF5 protein Expression System: E.coli Bioactivity: Induction of alkaline phosphatase activity in ATDC5 cells: EC50 = 40Nm.
Purity:	> 98 % pure

Target Details

Target:	GDF5
Alternative Name:	GDF5 (GDF5 Products)
Background:	GDF-5 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.

Target Details

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.

Alternative Names: BMP-14 protein, LAP4 protein, Growth Differentiation Factor 5 protein, GDF 5 protein, GDF-5 protein, Cartilage-derived morphogenetic protein-1 protein, GDF-5 protein, Radotermis protein, CDMP1 protein, GDF5 protein, GDF 5, BMP14 protein, Growth differentiation factor 5 protein, GDF-5 protein, CDMP-1 protein, SYNS2 protein, CDMP1 protein, GDF5, GDF-5

Molecular Weight: 26.8 kDa

Application Details

Application Notes: Each Investigator should determine their own optimal working dilution for specific applications.

Assay Procedure: Protein quantitation was carried out by two independent methods¹. UV spectroscopy at 280 nm using the absorbency value of 1.15 as the extinction coefficient for a 0.1 % (1 mg/mL) solution.

2. Analysis by RP-HPLC, using a standard solution of GDF5 as a Reference Standard.

Restrictions: For Research Use only

Handling

Format: Lyophilized

Buffer: Supplied as a lyophilized powder.

Handling Advice: Avoid repeated freeze/thaw cycles.

Storage: RT/-20 °C