Bioactive

GDF11 (Human/Mouse/Rat) Recombinant Protein

Catalog # P6319 Size 100 ug

Applications

Result of activity analysis

Result of activity analysis

Specification

Product Description	Human/Mouse/Rat GDF11 (O95390/Q9Z1W4/Q9Z217) recombinant protein expressed in *E.Coli*.
Sequence	NLGLDCDEHSSESRCCRYPLTVDFEAFGWDWIIAPKRYKANYCSGQCEYMFMQKYPHTHLVQQA NPRGSAGPCCTPTKMSPINMLYFNDKQQIIYGKIPGMVVDRCGCS
Host	Escherichia coli
Theoretical MW (kDa)	12.5/24.9
Form	Lyophilized
Purity	>= 95%
Endotoxin Level	<= 1 EUs/ug (Kinetic LAL)
Activity	ED_{50} <= 100 ng/mL Alkaline phosphatase activity in ATDC5 cells The values provided above are minimum expected values to pass internal requirements.
Quality Control Testing	Reducing and Non-Reducing SDS PAGE
Conformation	Dimer

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Storage Buffer	Lyophilized from a sterile (0.2 micron) filtered aqueous solution containing 0.1% Trifluoroacetic Acid (TFA).
Storage Instruction	Stored at -20°C to-80°C for 12 month. After reconstitution with sterile 10 mM HCl at 0.1 mg/mL, store at -20°C to -80°C for 3 months, store at 4°C for 1 month. Aliquot to avoid repeated freezing and thawing.
Note	Result of activity analysis Result of activity analysis

Applications

- Functional Study
- Western Blot

Gene Info — GDF11

Entrez GeneID	10220
Protein Accession#	O95390;Q9Z1W4;Q9Z217
Gene Name	GDF11
Gene Alias	BMP-11, BMP11
Gene Description	growth differentiation factor 11
Omim ID	603936
Gene Ontology	Hyperlink
Gene Summary	The protein encoded by this gene is a member of the bone morphogenetic protein (BMP) family a nd the TGF-beta superfamily. This group of proteins is characterized by a polybasic proteolytic pr ocessing site which is cleaved to produce a mature protein containing seven conserved cysteine r esidues. The members of this family are regulators of cell growth and differentiation in both embry onic and adult tissues. Studies in mice and Xenopus suggest that this protein is involved in meso dermal formation and neurogenesis during embryonic development. [provided by RefSeq
Other Designations	bone morphogenetic protein 11

Gene Info — Gdf11

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Entrez GeneID	14561
Protein Accession#	O95390;Q9Z1W4;Q9Z217
Gene Name	Gdf11
Gene Alias	Bmp11
Gene Description	growth differentiation factor 11
Gene Ontology	Hyperlink
Other Designations	-

Gene Info — Gdf11

Entrez GeneID	29454
Protein Accession#	O95390;Q9Z1W4;Q9Z217
Gene Name	Gdf11
Gene Alias	-
Gene Description	growth differentiation factor 11
Gene Ontology	Hyperlink
Other Designations	-

Publication Reference

- GDF11 inhibits abnormal adipogenesis of condylar chondrocytes in temporomandibular joint osteoarthritis.

  Helin Wang, Yuqian Shi, Feng He, Tao Ye, Shibin Yu, Hui Miao, Qian Liu, Mian Zhang.

  Bone & Joint Research 2022 Jul; 11(7):453.

  Application: Sub, Mouse, Mouse temporomandibular joint

Disease

- Genetic Predisposition to Disease
- Obesity

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- Ovarian Failure
- Polycystic Ovary Syndrome
- Puberty
- Thrombophilia
- Tobacco Use Disorder

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