Bioactive

GDF11 (Human) Recombinant Protein

Catalog # P8697 Size 20 ug

Specification

Product Description	Human GDF11 recombinant protein expressed in *Escherichia coli*.
Sequence	NLGLDCDEHSSESRCCRYPLTVDFEAFGWDWIIAPKRYKANYCSGQCEYMFMQKYPHTHLVQQA NPRGSAGPCCTPTKMSPINMLYFNDKQQIIYGKIPGMVVDRCGCS
Host	Escherichia coli
Theoretical MW (kDa)	24.9
Form	Lyophilized
Preparation Method	*Escherichia coli* expression system
Purity	> 95% as determined by SDS-PAGE.
Activity	ED_{50} < 0.2-0.3 ng/mL, measured by the ability to inhibit alkaline phosphatase activity in ATDC5 cells , corresponding to a specific activity of 5 x 10^6 units/mg.
Storage Buffer	Protein(1 mg/mL) was lyophilized from a solution containing 0.1% TFA. Reconstitute the lyophilized p owder in ddH_2O to 100 ug/mL.
Storage Instruction	Lyophilized protein at room temperature for 3 weeks, should be stored at -20°C. Protein aliquots at 4 °C for 2-7 days and should be stored at -20°C to -80°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid repeated freeze/thaw cycles.

Applications

- Functional Study

Gene Info — GDF11

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Entrez GeneID	10220
Protein Accession#	O95390
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

Disease

- Genetic Predisposition to Disease
- Obesity
- Ovarian Failure
- Polycystic Ovary Syndrome
- Puberty
- Thrombophilia
- Tobacco Use Disorder

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