Bioactive

GDF6 (Human) Recombinant Protein

Catalog # P8482 Size 50 ug

Specification

Product Description	Human GDF6 (Q6KF10) recombinant protein expressed in *Escherichia coli*.
Sequence	TAFASRHGKRHGKKSRLRCSKKPLHVNFKELGWDDWIIAPLEYEAYHCEGVCDFPLRSHLEPTN HAIIQTLMNSMDPGSTPPSCCVPTKLTPISILYIDAGNNVVYKQYEDMVVESCGCR.
Host	Escherichia coli
Theoretical MW (kDa)	27.1
Form	Lyophilized
Preparation Method	*Escherichia coli* expression system
Purity	> 95% by HPLC and SDS PAGE
Activity	The ED_{50} as determined by inducing alkaline phosphatase production of murine ATDC5 cells is less than 2.0ug/mL, corresponding to a specific activity of > 500IU/mg.
Storage Buffer	BMP-13 protein was lyophilized from a 0.2um filtered concentrated solution in 30% Acetonitrile and 0 .1% TFA.
Storage Instruction	Store at -20°C. Aliquot the product after reconstitution to avoid repeated freezing/thawing cycles.

Applications

- Functional Study
- SDS-PAGE

Gene Info — GDF6

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Entrez GeneID	392255
Protein Accession#	Q6KF10
Gene Name	GDF6
Gene Alias	BMP13, CDMP2, KFS, KFSL, MGC158100, MGC158101, SGM1
Gene Description	growth differentiation factor 6
Omim ID	120200 601147
Gene Ontology	Hyperlink
Gene Summary	This gene encodes a member of the bone morphogenetic protein (BMP) family and the TGF-beta superfamily of secreted signaling molecules. It is required for normal formation of some bones an d joints in the limbs, skull, and axial skeleton. Mutations in this gene result in colobomata, which ar e congenital abnormalities in ocular development, and in Klippel-Feil syndrome (KFS), which is a congenital disorder of spinal segmentation. [provided by RefSeq
Other Designations	-

Pathway

- Cytokine-cytokine receptor interaction
- TGF-beta signaling pathway

Disease

- Anophthalmos
- Cleft Lip
- Cleft Palate
- Coloboma
- Genetic Predisposition to Disease
- Microphthalmos
- Obesity
- Ovarian Failure
- Polycystic Ovary Syndrome

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- Puberty
- Thrombophilia
- Tobacco Use Disorder

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