9051 Mira Mesa Blvd, #910094
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GDF5 Mouse

Growth and Differentiation factor 5 Mouse Recombinant
CYK0178

Product Overview

Name	GDF5 Mouse
Description	
Growth and Differentiation factor 5 Mouse Recombinant	
Accession (Primary)	P43027
Synonyms	
Bmp-14, Bp, GDF-5, Bone morphogenetic protein 14, GDF5, Growth/differentiation factor 5.	
Introduction	
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. 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.	
Source	
Escherichia Coli.	
Physical Appearance	
Sterile Filtered White lyophilized (freeze-dried) powder.	
Formulation	
GDF-5 protein was lyophilized from a 0.2 μm filtered concentrated solution in 30% Acetonitrile and 0.1% TFA.	
Stability	
Lyophilized GDF5 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution GDF-5 should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.	
Purity	
Greater than 96.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.	
Amino acid sequence	
APLANRQGKR PSKNLKARCS RKALHVNFKD MGWDDWIIAP LEYEAFHCEG LCEFPLRSHL EPTNHAVIQT LMNSMDPEST PPTCCVPTRL SPISILFIDS ANNVVYKQYE DMVVESCGCR.	

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Biological Activity

The ED 50 as determined by inducing alkaline phosphatase production of murine ATDC5 cells is less than 1.0 µg/ml, corresponding to a specific activity of > 1000IU/mg.

Solubility

It is recommended to reconstitute the lyophilized GDF5 in sterile 4mM HCl not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.

Precautions

GDF5 Mouse is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (P43027)