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32-12084: Human Growth and Differentiation Factor-5

Gene :	GDF5
Gene ID :	8200
Uniprot ID :	P43026
Alternative Name :	BMP14,Â CDMP1, Bone morphogenetic protein 14, Cartilage-derived morphogenetic protein 1, Lipopolysaccharide-associated protein 4, Radotermin

Description

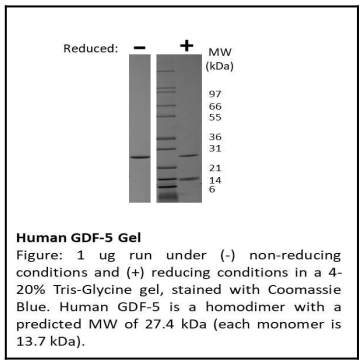
Source: Genetically modified E.coli.
Predicted MW:Â Dimer, 13.7/27.4 kDa (121/242 aa)
Â Growth differentiation factor 5 (GDF-5) is a member of the bone morphogenetic protein (BMP) and transforming growth factor beta (TGF-beta) families and functions to regulate cell proliferation and differentiation in embryonic and adult tissues. GDF-5 is expressed in the central nervous system and promotes the survival of dopaminergic neurons in animal models of Parkinson's disease. GDF-5 is also important during chondrogenesis and chondrocyte differentiation.

Product Info

Amount :	50 µg / 100 µg
Purification :	Reducing and Non-Reducing SDS PAGE at >= 95%
Content :	Lyophilized from a sterile (0.2 micron) filtered aqueous solution containing 0.1% Trifluoroacetic Acid (TFA) Sterile water at 0.1 mg/mL
Storage condition :	Store at -20°C
Amino Acid :	MAPLATRQGK RPSKNLKARC SRKALHVNFK DMGWDDWIIA PLEYEAFHCE GLCEFPLRSH LEPTNHAVIQ TLMNSMDPES TPPTCCVPTR LSPISILFIDSA NNVVYKQY EDMVVESCGC R

Application Note

Endotoxin: Less than 0.1 ng/Ã‚Âµg (1 IEU/Ã‚Âµg) as determined by LAL test.
Biological Activity was determined by Alkaline phosphatase activity in ATDC5 cells at <= 1.2 ug/mL; >= 8.3 x 10^2 units/mg (typical ED50 is < 25 ng/mL). Centrifuge vial before opening, Suspend the product by gently pipetting the above recommended solution down the sides of the vial. DO NOT VORTEX. Allow several minutes for complete reconstitution. For prolonged storage, dilute to working aliquots in a 0.1% BSA solution, store at -80Ã‚Â°C and avoid repeat freeze thaws. Upon reconstitution, a small amount of visible precipitate can be expected. A 10% overfill has been added to the total material vialed to compensate for this loss.



Human GDF-5 Gel
Figure: 1 ug run under (-) non-reducing conditions and (+) reducing conditions in a 4-20% Tris-Glycine gel, stained with Coomassie Blue. Human GDF-5 is a homodimer with a predicted MW of 27.4 kDa (each monomer is 13.7 kDa).

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