9051 Mira Mesa Blvd, #910094
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GDF7 Mouse

Growth and Differentiation factor 7 Mouse Recombinant
CYK0181

Product Overview

Name	GDF7 Mouse
Description	
Growth and Differentiation factor 7 Mouse Recombinant	
Accession (Primary)	P43029
Synonyms	
Growth/differentiation factor 7, GDF-7, Gdf7.	
Introduction	
Growth Differentiation Factor-7 (GDF-7) belongs to the BMP family of TGF-b superfamily proteins. GDF7 elicits its bioactivity via a heterodimeric receptor complex comprised of a type 1 (BMPR-IB) and a type II (BMPR-II or Activin RII) serine/threonine kinase receptor. GDF7 signaling results in the phosphorylation and activation of Smad proteins. GDF-7 is also involved in tendon and ligament formation and repair. In addition, GDF7 regulates bone formation, mesenchymal stem cell differentiation, neuronal differentiation, and axon guidance.	
Source	
Escherichia Coli.	
Physical Appearance	
Sterile Filtered White lyophilized (freeze-dried) powder.	
Formulation	
GDF7 protein was lyophilized from a 0.2 μm filtered concentrated solution in 30% Acetonitrile and 0.1% TFA.	
Stability	
Lyophilized GDF7 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution GDF-7 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 95.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.	
Amino acid sequence	
TALAGTRGAQ GSGGGGGGGG GGGGGGGGGG GGAGRGHGRR GRSRCSRKSL HVDFKELGWD DWIIAPLDYE AYHCEGVCDF PLRSHLEPTN HAIIQTLLNS MAPDAAPASC CVPARLSPIS ILYIDAANNV VYKQYEDMVV EACGCR.	
Biological Activity	

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The ED 50 as determined by inducing alkaline phosphatase production of murine ATDC5 cells is less than 0.5 µg/ml, corresponding to a specific activity of > 2000 IU/mg.

Solubility

It is recommended to reconstitute the lyophilized GDF-7 in sterile 18M-cm H 2 O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.

Precautions

GDF7 Mouse is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (P43029)