
Product Data Sheet

Product Name: GDF3 Human
 Cat. No.: GP20304
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
Synonyms	Growth Differentiation Factor 3; Growth/Differentiation Factor 3 ; MCOPCB6; MCOP7; GDF-3; KFS3.		
Amino Acid Sequence	MKHHHHHHAS AAIPVPKLSC KNLCHRHQLF INFRDLGW HK WIIAPKGFMA NYCHGEC PFS LTISLNSSNY AFMQALMHAV DPEIPQAVCI PTKLSPISML YQDNNDNVIL RHYEDMVVDECGCG.		
Solubility	It is recommended to reconstitute the lyophilized GDF3 in sterile 100mM Acetate buffer pH-4 at a concentration of 0.5mg/ml. For the dilution into higher pH values, it is recommended to dilute the protein to a concentration of 10µg/ml. Please note that in higher concentrations the solubility of GDF3 is limited. The protein is not sterile! Please sterile filter before using it in the cell culture.		
Formulation	The protein was lyophilized from a concentrated solution (0.5mg/ml) containing 30mM Acetate buffer pH-4.		

Introduction

GDF3 is a member of the TGF-beta superfamily though it does not show similarity pattern of conserved cysteine residues. GDF3 is linked to Vg-1 and human BMP-4. GDF3 transcripts are identified mainly in adult bone marrow, spleen, thymus, and adipose tissue. GDF3 expression is upregulated strongly in high-fat-fed C57Bl/6J FABP4/aP2 null mice, which develop obesity but not the related hyperglycemia or hyperinsulinemia characteristic of type II diabetes. GDF3 expression therefore bonds fatty acid metabolism in adipocytes and the expression of a differentiation regulator belonging to the bone morphogenetic proteins.

Stability

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

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Lyophilized GDF3 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C . Upon reconstitution GDF3 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.

Background

GDF3 Human Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 124 amino acids and having a total molecular mass of 14.15 kDa. GDF3 is fused to a 10 amino acid His Tag at N-terminus and purified by proprietary chromatographic techniques.

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