

Growth and Differentiation factor 3 Recombinant Protein | GDF3 recombinant protein

Recombinant Human Growth and Differentiation factor 3

CATALOG # AAA38755	HOST E Coli
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PRODUCT SYNONYMS

Growth and Differentiation factor 3; Recombinant Human Growth and Differentiation factor 3; GDF3 Human; Growth Differentiation Factor-3 Human Recombinant; VGR2; GDF-2; VGR-2; Vg-Related Gene-2; C78318; ecst9; Growth/differentiation factor 3; MGC123990; MGC123991; VG-1-related protein 2; GDF-3; GDF3; GDF3 recombinant protein

PRODUCT SPECIFICATIONS

Host	E Coli
Purity/Purification	Greater than 90.0% as determined by SDS-PAGE.
Form/Format	The protein was lyophilized from a concentrated solution (0.5mg/ml) containing 30mM Acetate buffer pH-4. Filtered White lyophilized (freeze-dried) powder.
Sequence	MKHHHHHHAS AAIPVKLSC KNLCHRHQLF INFRDLGWHK WIIAPKGFMA NYCHGECFPS LTISLNSSNY AFMQALMHAV DPEIPQAVCI PTKLSPISML YQDNNDNVIL RHYEDMVVDE CGCG
Sequence Length	364
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 10ug/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.
Preparation and Storage	Lyophilized GDF3 although stable at room temperature for 3 weeks, should be stored desiccated below -18 degree C. Upon reconstitution GDF3 should be stored at 4 degree C between 2-7 days and for future use below -18 degree C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

ADDITIONAL INFORMATION

Related Product Information for GDF3 recombinant protein	Description: 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. 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.
Product Categories/Family for GDF3 recombinant protein	Cytokines and Growth Factors; Cytokines; Bone Morphogenetic Protein

NCBI AND UNIPROT INFORMATION

NCBI GI #	10190670
NCBI GeneID	9573

NCBI Accession #	NP_065685.1
NCBI GenBank Nucleotide #	NM_020634.1
UniProt Accession #	Q9NR23; Q8NEJ4
Molecular Weight	41,387 Da
NCBI Official Full Name	growth/differentiation factor 3
NCBI Official Synonym Full Names	growth differentiation factor 3
NCBI Official Symbol	GDF3
NCBI Official Synonym Symbols	KFS3; MCOP7; MCOPCB6
NCBI Protein Information	growth/differentiation factor 3; GDF-3
UniProt Protein Name	Growth/differentiation factor 3
UniProt Gene Name	GDF3
UniProt Synonym Gene Names	GDF-3
UniProt Entry Name	GDF3_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/gdf3-recombinant-protein-e-coli/38755>