

GDF3 active protein

GDF3 protein

CATALOG # AAA75443	HOST Human
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PRODUCT SYNONYMS

GDF3; GDF3 protein; GDF 3 protein; GDF-3 protein; GDF-3; Growth/Differentiation Factor-3 protein; GDF 3; GDF3 active protein

PRODUCT SPECIFICATIONS

Host	Human
Purity/Purification	= > 98% by SDS-PAGE and HPLC
Form/Format	Lyophilized powder, 0.2micron sterile filtered from 20mM HCL. Centrifuge vial prior to opening. Reconstitute to a concentration of 0.1-1.0mg/ml and store at 4 degree C for 1 week or -20 degree C for long term. Do not Vortex.
Concentration	20ug, lyophilized (varies by lot)
Sequence	RegionofGD F3protein corresponds to amino acidsAAIPVP KLSCKNLCHR HQLFINFRDL GWHKWIIAPK GFMANYCHGE CPFSLTISLN SSNYAFMQAL MHAVDPEIPQ AVCIPTKLSP ISMLYQDNND NVILRHYEDM VVDECGCG.
Sequence Length	364
Protein Type	Recombinant
Biological Significance	GDF-3 is a member of the TGF beta superfamily of growth and differentiation factors, and is highly homologous to GDF-9. Unlike most TGF beta family members, GDF-3 and GDF-9 are not disulfide-linked dimers. GDF-3 is expressed in adult bone marrow, spleen, thymus, and adipose tissue. The expression of GDF-3 is upregulated in high-fat-fed wild-type FABP4/aP2 null mice and was associated with obesity, but not with the related hyperglycemia/hyperinsulinemia which characterizes Type 2 diabetes.
Bioactivity	Determined by its ability to inhibit induced alkaline phosphatase production by ATDC-5 chondrogenic cells. The ED50 for this effect is 100-150 ng/ml.
Endotoxin Levels	Endotoxin level is less than 0.1 ng per ug (1 EU/ug).
Expression System	E Coli
Biohazard	Use standard laboratory procedures when handling this product.
Preparation and Storage	Store at 4 degree C until reconstitution. Following reconstitution aliquot and freeze at -20 degree C for long term storage. Avoid repeated freeze/thaw cycles.

ADDITIONAL INFORMATION

Related Product Information for GDF3 active protein	Purified recombinant Human GDF3 protein
Product Categories/Family for GDF3 active protein	Cytokines & Growth Factors

NCBI AND UNIPROT INFORMATION

NCBI GI #	10190670
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NCBI GeneID	9573
NCBI Accession #	NP_065685.1
NCBI GenBank Nucleotide #	NM_020634.1
UniProt Accession #	Q9NR23; Q8NEJ4
Molecular Weight	26 kDa
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
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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/human-active-protein/gdf3/75443>