

Growth and Differentiation factor 7 Active Protein | GDF7 active protein

Recombinant Human Growth and Differentiation factor 7

CATALOG #
AAA37990

PRODUCT SYNONYMS

Growth and Differentiation factor 7; Recombinant Human Growth and Differentiation factor 7; Growth Differentiation Factor 7; GDF-7; Growth/Differentiation Factor 7; BMP12; GDF7; GDF7 active protein

PRODUCT SPECIFICATIONS

Purity/Purification	Greater than 95.0% as determined by SDS-PAGE.
Form/Format	Lyophilized from a 0.2 um filtered solution in HCl. Sterile Filtered White lyophilized (freeze-dried) powder.
Sequence	TALAGTRTAQ GSGGGAGRGH GRRGRSRC SR KPLHVDFKEL GWDDWIIAPL DYEAYHCEGL CDFPLRSHLE PTNHAIQTL LNSMAPDAAP ASCCVPARLS PISILYIDAA NNVVYKQYED MVVEACGCR
Sequence Length	450
Source	Escherichia Coli.
Biological Activity	The ED50, as determined by inducing alkaline phosphatase production by mouse ATDC5 cells, is less than 1.25 ug/ml.
Solubility	It is recommended to reconstitute the lyophilized GDF-7 in sterile 18M Omega-cm H2O not less than 100ug/ml, which can then be further diluted to other aqueous solutions.
Preparation and Storage	Lyophilized GDF7 although stable at room temperature for 3 weeks, should be stored desiccated below -18 degree C. Upon reconstitution GDF-7 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 GDF7 active protein	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 I (BMPRII) and a type II (BMPRII 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. Description: GDF7 Human Recombinant (322-450) produced in E Coli is a disulfide-linked homodimeric, non-glycosylated, polypeptide chain containing 129 amino acids and having a molecular mass of 28kDa. The GDF-7 is purified by proprietary chromatographic techniques.
Product Categories/Family for GDF7 active protein	Cytokines and Growth Factors

NCBI AND UNIPROT INFORMATION

NCBI GI #	61835232
NCBI GeneID	151449
NCBI Accession #	NP_878248.2

NCBI GenBank Nucleotide #	NM_182828.2
UniProt Accession #	Q7Z4P5
Molecular Weight	46,950 Da
NCBI Official Full Name	growth/differentiation factor 7 preproprotein
NCBI Official Synonym Full Names	growth differentiation factor 7
NCBI Official Symbol	GDF7
NCBI Official Synonym Symbols	BMP12
NCBI Protein Information	growth/differentiation factor 7
UniProt Protein Name	Growth/differentiation factor 7
UniProt Gene Name	GDF7
UniProt Synonym Gene Names	GDF-7
UniProt Entry Name	GDF7_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/gdf7-active-protein/growth-and-differentiation-factor-7/37990>