

Growth Differentiation Factor-5 (GDF-5) Recombinant Protein | GDF-5 recombinant protein

Recombinant Human Growth Differentiation Factor-5 (GDF-5 Human)

CATALOG # AAA76543	HOST E. Coli	REACTIVITY Human
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PRODUCT SYNONYMS

Growth Differentiation Factor-5 (GDF-5); Recombinant Human Growth Differentiation Factor-5 (GDF-5 Human); GDF-5 recombinant protein

PRODUCT SPECIFICATIONS

Host	E. Coli
Reactivity	Human
Purity/Purification	Greater than 98.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.
Form/Format	The protein was lyophilized without any additives.
Sequence	APSATRQGKR PSKNLKARCS RKALHVNFKD MGWDDWIIAP LEYEAHFCEG LCEFPLRSHL EPTNHAVIQT LMNSMDPEST PPTCCVPTRL SPISILFIDS ANNVVYKQYE DMVVESCGCR
Protein Content	Protein quantitation was carried out by two independent methods: 1. UV spectroscopy at 280 nm using the absorbency value of 1.15 as the extinction coefficient for a 0.1% (1mg/ml) solution. This value is calculated by the PC GENE computer analysis program of protein sequences (IntelliGenetics). 2. Analysis by RP-HPLC, using a standard solution of GDF-5 as a Reference Standard.
Reconstitution	It is recommended to reconstitute the lyophilized Growth Differentiation Factor 5 in sterile 20mM AcOH not less than 100ug/ml, which can then be further diluted to other aqueous solutions.
Preparation and Storage	Lyophilized Growth Differentiation Factor 5 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution Growth Differentiation Factor-5 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 avoid freeze-thaw cycles.

ADDITIONAL INFORMATION

Related Product Information for GDF-5 recombinant protein	Growth Differentiation Factor 5 Human Recombinant produced in E.Coli is a homodimer, non-glycosylated, polypeptide chain containing 2 x 120 amino acids and having a total molecular mass of 2748 Dalton. To enable bacterial expression of GDF-5 we removed the N-terminal sequence Ala-Pro-Leu-Thr and added the Lys. GDF5 is purified by proprietary chromatographic techniques.
Product Categories/Family for GDF-5 recombinant protein	Proteins ; Growth/Differentiation Factors and Small Molecules ; Axon Growth and Guidance ; GDF-5

NCBI AND UNIPROT INFORMATION

NCBI GI #	611435007
NCBI GeneID	8200
NCBI Accession #	NP_000548.2

NCBI GenBank Nucleotide #	NM_000557.4
NCBI Official Full Name	growth/differentiation factor 5 preproprotein
NCBI Official Synonym Full Names	growth differentiation factor 5
NCBI Official Symbol	GDF5
NCBI Official Synonym Symbols	OS5; LAP4; BDA1C; BMP14; CDM1; LAP-4; SYM1B; SYNS2; BMP-14
NCBI Protein Information	growth/differentiation factor 5
UniProt Protein Name	Growth/differentiation factor 5
UniProt Gene Name	GDF5
UniProt Synonym Gene Names	BMP14; CDM1; GDF-5; BMP-14; CDM-1; LAP-4; LPS-associated protein 4
UniProt Entry Name	GDF5_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/gdf5-recombinant-protein-e-coli/76543>