



Recombinant Human GDF-5

Datasheet

Catalog Number: PR27028

Product Type: Recombinant Protein

Source: E. Coli

Amino Acid Sequence: APSATRQGKR PSKNLKARCS RKALHVNFKD MGWDDWIIAP LEYEAHFHCEG LCEFPLRSHL EPTNHAVIQT LMNSMDPEST PPTCCVPTRL SPISILFIDS ANNVVYKQYE DMVVESCGCR

Description/Molecular Mass: 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

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.

Purity: Greater than 98.0% as determined by:
(a) Analysis by RP-HPLC.
(b) Analysis by SDS-PAGE.

Format: The protein was lyophilized without any additives.

Reconstitution: It is recommended to reconstitute the lyophilized Growth Differentiation Factor 5 in sterile 20mM AcOH not less than 100µg/ml, which can then be further diluted to other aqueous solutions.

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.

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www.neuromics.com

Neuromics Antibodies • 5325 West 74th Street, Suite 8 • Edina, MN 55439
phone 866-350-1500 • fax 612-677-3976 • e-mail pshuster@neuromics1.com