

# Mouse GDF5 Recombinant Protein



RPPB0305

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## Product Information    Protein Information

**Product SKU:**

RPPB0305

**Accession:**

P43027

**Host:**

Escherichia Coli.

**Protein description:**

GDF5 Mouse Recombinant produced in E.coli is a non-glycosylated disulfide linked homodimer containing 2 chains of 120 amino acids and having a molecular mass of 27.2kDa. The GDF-5 is purified by proprietary chromatographic techniques.

**Appearance:**

Sterile Filtered White lyophilized (freeze-dried) powder.

**Synonyms:**

Bmp-14, Bp, GDF-5, Bone morphogenetic protein 14, GDF5, Growth/differentiation factor 5.

**Formulation:**

GDF-5 protein was lyophilized from a 0.2µm filtered concentrated solution in 30% Acetonitrile and 0.1% TFA.

**Purity:**

Greater than 96.0% as determined by:(a) Analysis by RP-HPLC.(b) Analysis by SDS-PAGE.

**Solubility:**

It is recommended to reconstitute the lyophilized GDF5 in sterile 4mM HCl not less than 100µg/ml, which can then be further diluted to other aqueous solutions.

**Stability:**

Lyophilized GDF5 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution GDF-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 prevent freeze-thaw cycles.

**Amino Acid Sequence:**

APLANRQGKR PSKNLKARCS RKALHVNFKD MGWDDWIIAP LEYEAHFCEG LCEFPLRSHL EPTNHAVIQT LMNSMDPEST PPTCCVPTRL SPISILFIDS ANNVVYKQYE DMVVESCGCR.

**Biological Activity:**

The ED50 as determined by inducing alkaline phosphatase production of murine ATDC5 cells is less than 1.0µg/ml, corresponding to a specific activity of > 1000IU/mg.