

GDF-5 Protein, Human, Recombinant (Active)

General Information

Synonyms:	CDMP1;Lipopolysaccharide-associated protein 4 (LAP-4;LPS-associated protein 4);Cartilage-derived morphogenetic protein 1 (CDMP-1);Bone morphogenetic protein 14 (BMP-14);GDF5;GDF-5;Growth/differentiation factor 5;Radotermin;BMP14
Protein Construction:	382-501 aa
Species:	Human
Expression Host:	E. coli
Accession:	P43026
Molecular Weight:	13.6 kDa (Predicted)
AA Sequence:	APLATRQGKRPSKNLKRCSRKALHVNFKDMGWDDWIIAPLEYEAFHCEGLCEFPLRSHLEPTNHAVIQTLMNSMDPESTPPTCCVPTLSPISILFIDSANNVVKQYEDMVVESCGR

QC Testing

Biological Activity:	Fully biologically active when compared to standard. The ED50 as determined by inducing alkaline phosphatase production of murine ATDC5 cells is less than 1.0 µg/ml, corresponding to a specific activity of > 1000 IU/mg.
Purity:	>95% as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/µg of the protein as determined by the LAL method.
Formulation:	Lyophilized from a 0.2 µm filtered concentrated solution in 30 % Acetonitrile and 0.1 % TFA.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in sterile deionized water. The product concentration should not be less than 100 µg/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

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