

Recombinant Human Growth Differentiation Factor 5/Bone Morphogenetic Protein-14 (rHuGDF-5/BMP-14)

PrimeGene Technical Data Sheet

Catalog Number: 108-14

Source: Escherichia coli.

Molecular Weight: Approximately 27.1 kDa, a disulfide-linked homodimeric protein containing two 120 amino acids.

Quantity: $10\mu g/50\mu g/1000\mu g$

AA Sequence: APLATRQGKR PSKNLKARCS RKALHVNFKD MGWDDWIIAP LEYEAFHCEG LCEFPLRSHL

EPTNHAVIQT LMNSMDPEST PPTCCVPTRL SPISILFIDS ANNVVYKQYE DMVVESCGCR

Purity: > 95 % by SDS-PAGE and HPLC analyses.

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.

Physical Appearance: Sterile Filtered White lyophilized (freeze-dried) powder.

Formulation: Lyophilized from a 0.2 µm filtered concentrated solution in 30 % Acetonitrile and 0.1 % TFA.

Endotoxin: Less than 0.1 EU/μg of rHuGDF-5/BMP-14 as determined by LAL method.

Reconstitution: We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the

bottom. Reconstitute in 4 mM HCl to a concentration of 0.1-1.5 mg/mL. Stock solutions should be apportioned into working aliquots and stored at \leq -20 °C. Further dilutions should be made in

appropriate buffered solutions.

Shipping: The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature

recommended below.

Stability & Storage: Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

■ 12 months from date of receipt, -20 to -70 °C as supplied.

1 month, 2 to 8 °C under sterile conditions after reconstitution.

3 months, -20 to -70 °C under sterile conditions after reconstitution.

Usage: This material is offered by Shanghai PrimeGene Bio-Tech for research, laboratory or further

evaluation purposes. NOT FOR HUMAN USE.

Human Growth Differentiation Factor 5/Bone Morphogenetic Protein-14

Growth/differentiation factors (GDF-1 to GDF-15) are members of the BMP family of TGF-beta superfamily proteins. They are produced as inactive preproproteins which are then cleaved and assembled into active secreted homodimers. GDF dimers are disulfide-linked with the exception of GDF-3 and -9. GDF proteins are important during embryonic development, particularly in the skeletal, nervous, and muscular systems.

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