## **PrimeGene** a biotechne brand

## Recombinant Human Growth Differentiation Factor 7/Bone Morphogenetic Protein-12 (rHuGDF-7/BMP-12)

**PrimeGene Technical Data Sheet** 

Source:Escherichia coli.Molecular Weight:Approximately 28.0 kDa, a disulfide-linked homodimeric protein containing two 129 amino acids.Quantity:2µg/10µg/1000µgAA Sequence:TALAGTRTAQ GSGGGAGRGH GRRGRSRCSR KPLHVDFKEL GWDDWIIAPL DYEAYHCEGL CDFPLRSHLE PTNHAIIQTL LNSMAPDAAP ASCCVPARLS PISILYIDAA NNVVYKQYED MVVEACGCRPurity:>95 % by SDS-PAGE and HPLC analyses.Biological Activity:Fully biologically active when compared to standard. The ED <sub>50</sub> 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:Less than 0.1 EU/µg of rHuGDF-7/BMP-12 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 sterile distilled water or aqueous buffer containing 0.1 % BSA to a concentration of 0.1-1.0 mg/mL. Stock solutions should be apportioned into working aliquots and stored at ≤ -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.
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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 7/Bone Morphogenetic Protein-12

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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