PrimeGene a biotechne brand

Recombinant Murine Growth Differentiation Factor 7/Bone Morphogenetic Protein-12 (rMuGDF-7/BMP-12)

PrimeGene Technical Data Sheet

Catalog Number:	128-12
Source:	Escherichia coli.
Molecular Weight:	Approximately 29.8 kDa, a homodimeric protein consisting of two 146 amino acid non-glycosylated
	polypeptide chains.
Quantity:	2µg/10µg/1000µg
AA Sequence:	TALAGTRGAQ GSGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG
	HVDFKELGWD DWIIAPLDYE AYHCEGVCDF PLRSHLEPTN HAIIQTLLNS
	MAPDAAPASC CVPARLSPIS ILYIDAANNV VYKQYEDMVV EACGCR
Purity:	> 95 % by SDS-PAGE and HPLC analyses.
Biological Activity:	Fully biologically active when compared to standard. The ED ₅₀ as determined by inducing alkaline
	phosphatase production of murine ATDC5 cells is less than 0.5 μ g/ml, corresponding to a specific
	activity of > 2000 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 rMuGDF-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 \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 .

Murine 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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