ChemUhat A brand under Watson

Recombinant Murine Growth Differentiation Factor 5/Bone Morphogenetic Protein-14 (rMuGDF-5/BMP-14)

ChemWhat Technical Data Sheet (TDS)

Catalog Number:	128-14
Source:	Escherichia coli.
Molecular Weight:	Approximately 27.2 kDa, a disulfide-linked homodimeric protein containing two 120 amino acids.
Quantity:	10µg/50µg/1000µg
AA Sequence:	APLANRQGKR PSKNLKARCS RKALHVNFKD MGWDDWIIAP LEYEAFHCEG
	LCEFPLRSHL EPTNHAVIQT LMNSMDPEST PPTCCVPTRL SPISILFIDS
	ANNVVYKQYE DMVVESCGCR
Purity:	> 96 % 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 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 rMuGDF-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 0.1-1.0 mg/mL. Stock solutions should be
	apportioned into working aliquots and stored at \leq -20 ${\rm C}$. 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
1024204 127 Koncese - 45 17 Hondale	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:	ChemWhat Limited in UK offers this branded product for research, development or further
	evaluation purposes. NOT FOR HUMAN USE.

Murine 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.

https://www.chemwhat.com