ChemUhat A brand under Watson

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

ChemWhat Technical Data Sheet (TDS)

| Catalog Number: | 108-12 |
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| Source: | Escherichia coli. |
| Molecular Weight: | Approximately 28.0 kDa, a disulfide-linked homodimeric protein containing two 129 amino acids. |
| Quantity: | 2µg/10µg/1000µg |
| AA Sequence: | TALAGTRTAQ GSGGGAGRGH GRRGRSRCSR KPLHVDFKEL GWDDWIIAPL |
| | DYEAYHCEGL CDFPLRSHLE PTNHAIIQTL LNSMAPDAAP ASCCVPARLS |
| | PISILYIDAA NNVVYKQYED MVVEACGCR |
| 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 1.0 µg/ml, corresponding to a specific |
| | activity of $> 1000 \text{ IU/mg}$. |
| Physical Appearance: | Sterile Filtered White lyophilized (freeze-dried) powder. |
| Formulation: | Lyophilized from a 0.2 μ m filtered concentrated solution in 30 % Acetonitrile and 0.1 % TFA. |
| Endotoxin: | 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 \leq -20 $\mathbb C$. 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: | ChemWhat Limited in UK offers this branded product for research, development 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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