

Bone Morphogenetic Protein-7 Human Recombinant, CHO

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| Item Number | rAP-0373 |
| Synonyms | Osteogenic Protein 1, BMP-7. |
| Description | N-TERMINAL---Human BMP-2 (Met 1 – Arg 282) Human BMP-7 (Ser 293 – Arg 431)---C-TERMINAL. The DNA sequence encoding the human BMP-2 signal peptide and propeptide (1~282 amino acid) fused to the human rhBMP-7 mature chain (293~431 amino acid) was expressed in a Chinese hamster ovary cell line. |
| Uniprot Accession Number | P18075 |
| Amino Acid Sequence | |
| Source | Chinese Hamster Ovarian Cells. |
| Physical Appearance and Stability | Lyophilized BMP-7 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution BMP 7 Human should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles. |
| Formulation and Purity | BMP-7 was lyophilized from a concentrated (1mg/ml) sterile solution containing 1% sucrose, 1.2% mannitol, 20mM glycine and 0.05% polysorbate 20 pH-4. Greater than 97.0% as determined by:(a) Analysis by RP-HPLC.(b) Analysis by SDS-PAGE. |
| Application | |
| Solubility | It is recommended to reconstitute the lyophilized Bone Morphogenetic Protein-7 in 0.5mg/1ml sterile/ endotoxin free water. |
| Biological Activity | Measured in alkaline phosphatase activity assay using MC3T3-E1 cells. The ED50 for this effect is < 70ng/ml, corresponding to a Specific Activity of 14,286IU/mg. |
| Shipping Format and Condition | Lyophilized powder at room temperature. |

Optimal dilutions should be determined by each laboratory for each application. The listed dilutions are for recommendation only and the final conditions should be optimized by the ender users! This product is sold for **Research Use Only**