

PrimeGene™ Recombinant Human Bone Morphogenetic Protein 7
a biotechne brand (rHuBMP-7)

PrimeGene Technical Data Sheet

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| Catalog Number: | 108-07 |
| Source: | <i>Escherichia coli</i> . |
| Molecular Weight: | Approximately 15.7 kDa, a monomeric, non-glycosylated polypeptide chain containing 139 amino acids. |
| Quantity: | 2µg/10µg/1000µg |
| AA Sequence: | STGSKQRSQN RSKTPKNQEA LRMANVAENS SSDQRQACKK HELYVSFRDL GWQDWIIAPE GYAAYYCEGE CAFPLNSYMN ATNHAIVQTL VHFINPETVP KPCCAPTQLN AISVLYFDDS SNVILKKYRN MVVRACGCH |
| Purity: | > 95 % by SDS-PAGE and HPLC analyses. |
| Biological Activity: | Data is not available. |
| Physical Appearance: | Sterile Filtered White lyophilized (freeze-dried) powder. |
| Formulation: | Lyophilized from a 0.2 µm filtered concentrated solution in 30 % acetonitrile, 0.1 % TFA. |
| Endotoxin: | Less than 1 EU/µg of rHuBMP-7 as determined by LAL method. |
| Applications: | 1. Molecular standard (Western, ELISA) in studying secreted BMP-7; 2. Preparing antibodies for BMP-7 monomer; 3. Molecule standard in detecting secreted BMP-7 in reduced SDS-PAGE. |
| Reconstitution: | We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in 10 mM HAc to a concentration less than 0.2 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. |
| Stability & Storage: | Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none">● 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 Bone Morphogenetic Protein 7

Bone Morphogenetic Protein 7 is one of the BMPs, some of which belong to the TGF-beta superfamily (BMP2-7). There are more than thirteen BMPs have been discovered nowadays and they are involved in inducing cartilage and bone formation. BMP-7 is mainly expressed in kidney and bladder. It is also present in developing eyes, brain and ear during embryogenesis. BMP-7 also named osteogenic protein-1 (OP-1) is a potent osteoinductive cytokine and plays role in osteoblast differentiation, SMAD1 production and renal development and repair. Human BMP-7 is synthesized with a signal sequence (29 a.a.), a propeptide (263 a.a.), and a growth factor domain (139 a.a.). The growth factor domain of human BMP-7 shares 98 % a.a. sequence identity with mouse and rat BMP-7.

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