

Recombinant Human BMP-10

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|-------------------|--|--------|
| CATALOG #: | 4581-20 | 20 µg |
| | 4581-100 | 100 µg |
| | 4581-1000 | 1 mg |
| LOT #: | _____ | |
| SOURCE: | <i>E. coli</i> | |
| PURITY: | >98% by SDS-PAGE and HPLC analyses Endotoxin level is <0.1 ng per µg of BMP-10. | |
| FORM: | Sterile filtered and lyophilized with no additives | |

RECONSTITUTION:

Centrifuge the vial prior to opening. Reconstitute to a concentration of 0.1-1.0 mg/ml in water containing BSA (50 µg BSA per 1 µg of protein). This solution can then be diluted into other aqueous buffers and stored at 4°C for 1 week or -20°C for future use.

STORAGE CONDITIONS:

The lyophilized protein is best-stored desiccated below 0°C. Reconstituted BMP-10 should be stored in working aliquots at -20°C.

DESCRIPTION:

BMPs (bone morphogenetic proteins) belong to the TGF-β superfamily of structurally related signaling proteins. As implied by their name, BMPs promote and regulate bone development, growth, remodeling and repair, in both prenatal development and postnatal growth of eye, heart, kidney, skin, and other tissues. BMP-10 is essential for the proper development of the heart, but is not expressed until after cardiac patterning or looping are completed. Recombinant human BMP-10 is a 32 kDa disulfide-linked homodimer containing two 142 amino acid polypeptide chains.

BIOLOGICAL ACTIVITY:

The protein is biologically active as determined by its ability to induce alkaline phosphatase production by C2C12 cells. The ED₅₀ is in the range of 0.3-3 µg/ml.

FOR RESEARCH USE ONLY! Not to be used on humans.

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- Caspase Assay Kits & Reagents
- Mitochondrial Apoptosis Kits & Reagents
- Nuclear Apoptosis Kits & Reagents
- Apoptosis Inducers and Set
- Apoptosis siRNA Vectors

Cell Fractionation System

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- Nuclear/Cytosol Fractionation Kit
- Membrane Protein Extraction Kit
- Cytosol/Particulate Rapid Separation Kit
- Mammalian Cell Extraction Kit
- FractionPREP Fractionation System

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