Datasheet

Bone Morphogenic Protein 7

Human Recombinant

Product	Description	Catalogue-No.	Size
BMP-7	**Bone Morphogenic protein 7 from *E.coli***	**CB-1113011** **CB-1113012**	**2 µg** **10 µg**

Product description

Synonyms: Osteogenic Protein 1, BMP-7

The bone morphogenetic proteins (BMPs) are a family of secreted signaling molecules that can induce ectopic bone growth. Many BMPs are part of the transforming growth factor-beta (TGFB) superfamily. BMPs were originally identified by an ability of demineralized bone extract to induce endochondral osteogenesis in vivo in an extraskeletal site. Based on its expression early in embryogenesis, the BMP encoded by this gene has a proposed role in early development. In addition, the fact that this BMP is closely related to BMP5 and BMP7 has lead to speculation of possible bone inductive activity.

Bone Morphogenetic Protein-7 Human Recombinant produced in E.Coli is a monomeric, non-glycosylated, polypeptide chain containing 139 amino acids and having a molecular mass of 15679.97 Dalton. The BMP-7 is purified by proprietary chromatographic techniques.

Solubility and storage conditions

It is recommended to briefly centrifuge the vial prior to opening to bring the contents to the bottom. Reconstitute in 20mM-100mM acetic acid at a concentration of 0.1-0.5mg per ml. Stock solutions should be apportioned into working aliquots and stored at <-20°C. Further dilutions should be made in appropriate buffered solutions. 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.

Composition

BMP-7 was lyophilized from a concentrated (1mg/ml) sterile solution containing 10mM sodium citrate pH=3.5.

Greater than 95.0% as determined by:

(a) Analysis by RP-HPLC.

(b) Analysis by SDS-PAGE.

Amino acid sequence:

The sequence of the first five N-terminal amino acids was determined and was found to be Ser-Thr-Gly-Ser-Lys.

Technical support

For technical support, questions or remarks please contact your local PAN-Biotech partner or the technical department of PAN-Biotech via email (info@pan-biotech.com) or phone +49-8543-601630.

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