11 Park Drive, Suite 12
Boston, MA 02215

Human Bone Morphogenetic Protein-6 (BMP-6)

ORDERING INFORMATION

Catalog No: rAP-0055;
Size: 2 µg; 10 µg
Storage: <- 20° C

Synonyms:
VGR, VGR1, BMP-6.

Introduction:
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.

Description:
Bone Morphogenetic Protein-6 Human Recombinant produced in E.Coli is a homodimeric, non-glycosylated, Polypeptide chain containing 142 amino acids and having a molecular mass of 15 kDa.
3 additional amino acids were added from the N-terminal Ala-Pro-Thr to increase bacterial expression.
The BMP-6 is purified by proprietary chromatographic techniques.

Source:
Escherichia Coli.

Physical Appearance:
Sterile Filtered White lyophilized (freeze-dried) powder.

Formulation:
The protein was lyophilized from a concentrated (1mg/ml) sterile solution containing no additives.

Solubility:
It is recommended to reconstitute the lyophilized Bone Morphogenetic Protein-6 in sterile 20mM AcOH (acetic Acid) not less than 100µg/ml, which can then be further diluted to other aqueous solutions.

Stability:
Lyophilized BMP 6 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution Bone Morphogenetic Protein 6 should be stored at 4°C between 2-7 days and for future use below -18°C.
Please prevent freeze-thaw cycles.

Purity:
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 ten N-terminal amino acids was determined and was found to be Met-Ala-Pro-Thr-Ser-Ala-Ser-Ser-Arg-Arg.

Contact & Ordering Information: Angio-Proteomie, 11 Park Drive, Suite 12, Boston, MA 02215, USA. Fax: (480) 247-4337, angioproteomie@gmail.com

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Protein content:

Protein quantitation was carried out by two independent methods:

1. UV spectroscopy at 280 nm using the absorbency value of 1.4 as the extinction coefficient for a 0.1% (1mg/ml) solution. This value is calculated by the PC GENE computer analysis program of protein sequences (IntelliGenetics).

2. Analysis by RP-HPLC, using a standard solution of BMP-6 as a Reference Standard.

Usage:

Angio-Proteomie's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.