



Bone Morphogenetic protein-6, human recombinant (rhuBMP6)

Catalog No: 99917
Lot No: XXXXX
Source: *E. coli*
Synonyms: Bone morphogenetic protein 6, BMP-6, VG-1-related protein, VG-1-R, VGR-1, BMP6, VGR, VGR1

Background

The bone morphogenetic proteins (BMPs) are a family of secreted signaling molecules, which can induce ectopic bone growth. Various BMPs are part of the transforming growth factor beta (TGF- β) superfamily. BMPs were initially identified by an ability of demineralized bone extract to induce endochondral osteogenesis *in vivo* in an extraskeletal site. Based upon its expression early in embryogenesis, BMP6 has a suggested role in early development. Moreover, the fact that BMP6 is closely related to BMP5 and BMP7 leads to an assumption of possible bone inductive activity.

Description

BMP6 Human Recombinant, produced in *E. coli*, is a single, non-glycosylated polypeptide chain containing 164 amino acids (375-513). It has a molecular mass of 18 kDa. BMP6 is fused to a 25 amino acid His-tag at N-terminus and purified by proprietary chromatographic techniques.

Physical Appearance

Sterile filtered, colorless solution.

Formulation

The BMP6 solution (0.25 mg/ml) contains 10 mM sodium citrate buffer (pH 3.5) and 10% glycerol.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store frozen at -20°C for longer periods of time. For long term storage, it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Purity

Greater than 85% as determined by SDS-PAGE.

Usage

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