

## BMP 7 Human, Plant

**Description:** Bone Morphogenetic Protein-7 Human Recombinant produced in Plant is a monomeric, glycosylated, polypeptide chain containing 144 amino acids and having a molecular mass of 16.5kDa, and fused to a 6xHis-tag at the N-terminus. The BMP-7 is purified by proprietary chromatographic techniques.

Catalog #: CYP5-046

For research use only.

**Synonyms:** Osteogenic Protein 1, BMP-7.

**Source:** *Nicotiana benthamiana*.

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

**Amino Acid Sequence:**

HHHHHHSTGSKQRSQNRSKTPKNQEALRMANVAENSSSDQRQACKKHELYVSFRDLGWQDWII  
APEGYAAYYCEGECAPFLNSYMNATNHAIVQLVHFNPETVPKPCCAPTQLNAISVLVYFDDSSVIL  
KKYRNMVVRACGCH.

**Purity:** Greater than 97.0% as determined by SDS-PAGE.

**Formulation:**

BMP-7 was lyophilized from a solution containing Tris-HCl 0.05M buffer at pH 7.4.

**Stability:**

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.

**Usage:**

NeoBiolab'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.

**Solubility:**

Lyophilized BMP-7 protein should be reconstituted in distilled water to a concentration of 50 ng/

**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 led to speculation of possible bone inductive activity.

**Biological Activity:**

The biological activity of BMP-7 was measured by its ability to induce alkaline phosphatase production by ATDC5 cells, ED50 is less than 40ng/ml, corresponding to a specific activity of 25,000 units/mg.

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