

Recombinant Human BMP-11

CATALOG #: 4576-10 10 µg
4576-50 50 µg
4576-1000 1 mg

LOT #: _____

SOURCE: *E. coli*

PURITY: >98% by SDS-PAGE and HPLC analyses
Endotoxin level is <0.1 ng per µg of BMP-11.

FORM: Lyophilized from 10 mM Sodium Citrate, pH 3.5.

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-11 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. Recombinant human BMP-11 is N-terminus His-tagged protein with a molecular weight of 32.6 kDa (for homodimeric) and 16.2 (for monomeric) consisting of 136 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 0.4-4 µg/ml.

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