

Recombinant Human BMP-5

CATALOG #: 4574-10 10 µg
4574-50 50 µg
4574-1000 1 mg

LOT #: _____

SOURCE: *E. coli*

PURITY: >98% by SDS-PAGE and HPLC analyses
Endotoxin level is <0.1 ng per µg of BMP-5.

FORM: Sterile filtered and lyophilized with no additives

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° for future use.

STORAGE CONDITIONS:

The lyophilized protein is best-stored desiccated below 0°C. Reconstituted BMP-5 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. Human BMP-5 is a 31 kDa homodimeric protein consisting of two 134 amino acid polypeptide chains.

BIOLOGICAL ACTIVITY:

The ED₅₀ as determined by the dose-dependent induction of alkaline phosphatase production with ATDC5 chondrogenic cells is typically 0.3-3 µg/ml.

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