Product Sheet

BMP-4, human recombinant

Catalog # BMP4-005; BMP4-025; BMP4-100

Description Bone morphogenetic proteins (BMPs) constitute a subfamily within the TGF-β family of structurally related signaling proteins. BMP-4 is involved in the development and maintenance of bone and cartilage. Recombinant human BMP-4, expressed in mammalian cells, is a 32-38 kDa homodimeric glycoprotein. StemRD's BMP-4 is made in human 293 cells, which renders human-specific post-translational modifications. We purified this product through a series of chromatography including HPLC.

Source Human 293 cells

Formulation Lyophilized in sterile filtered solution of acetonitrile/TFA/NaCl solution.

Reconstitution Before reconstitution, we recommend a brief spin to drive down any material dislodged from the bottom of the tube. The lyophilized protein should be reconstituted in 10 mM Acetic Acid or 5 mM HCl. Further dilutions should be made in buffer or medium containing carrier proteins, such as albumin or serum.

Stability The lyophilized protein is stable for at least 1 year if stored at -80 degree C. Reconstituted protein is stable for at least 1 month at 4 degree C, but should be stored in aliquots at -80 degree C for longer term. Avoid repeated freeze/thaw.

Purity Greater than 95% by SDS-PAGE and HPLC analysis

Biological Activity The activity was determined by using a BMP response element (BRE) reporter gene assay. The EC50 ranges from 1 - 5 ng/ml.

Country of Origin USA

For Research Use Only. Not for Use in Humans.

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