

Product Sheet

BMP-9, human recombinant

Catalog #	BMP9HIS-010; BMP9HIS-050; BMP9HIS-100
Description	Bone morphogenetic proteins (BMPs) constitute a subfamily within the TGF- β family of structurally related signaling proteins. BMP-9, also known as Growth and Differentiation Factor 2 (GDF-2) is involved in the development and maintenance of bone and cartilage. Recombinant human BMP-9, expressed in mammalian cells, is a 26-30 kDa homodimeric glycoprotein. StemRD's BMP-9-His 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 PBS.
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 sterile H ₂ O. 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 reporter gene assay. The EC50 ranges from 2 - 10 ng/ml.
Country of Origin	USA

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