

## Bone Morphogenetic Protein-4 Human Recombinant

<b>Item Number</b>	rAP-0377
<b>Synonyms</b>	BMP4, ZYME, BMP2B, BMP2B1.
<b>Description</b>	Bone Morphogenetic Protein-4 Human Recombinant produced in E.Coli is a monomeric, non-glycosylated, Polypeptide chain containing 116 amino acids and having a molecular mass of 13kDa. The BMP-4 is purified by proprietary chromatographic techniques.
<b>Uniprot Accession Number</b>	P12644
<b>Amino Acid Sequence</b>	SPKHHSQRAR KKNKNCRRHS LYVDFSDVGW NDWIVAPPGY QAFYCHGDCP FPLADHLNST NHAIVQTLVN SVNSSIPKAC CVPTLSAIS MLYLDEYDKV VLKNYQEMVV EGCGR.
<b>Source</b>	Escherichia Coli.
<b>Physical Appearance and Stability</b>	Sterile Filtered White lyophilized (freeze-dried) powder. Lyophilized Bone Morphogenetic Protein-4 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution BMP4 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.
<b>Formulation and Purity</b>	BMP-4 was lyophilized from a 0.2µm filtered concentrated (1mg/ml) solution in 20mM Na <sub>2</sub> CO <sub>3</sub> buffer, pH 9.0. Greater than 95.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.
<b>Application</b>	
<b>Solubility</b>	It is recommended to reconstitute the lyophilized Bone Morphogenetic Protein-4 in sterile 18M-cm H <sub>2</sub> O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.
<b>Biological Activity</b>	
<b>Shipping Format and Condition</b>	Lyophilized powder at room temperature.

Optimal dilutions should be determined by each laboratory for each application. The listed dilutions are for recommendation only and the final conditions should be optimized by the ender users! This product is sold for **Research Use Only**