

## Bone Morphogenetic protein-4 Human Recombinant, Active

<b>Item Number</b>	rAP-0367
<b>Synonyms</b>	BMP4, ZYME, BMP2B, BMP2B1.
<b>Description</b>	BMP-4 Human Recombinant produced in HEK cells is a glycosylated disulfide linked homodimer, having a total molecular weight of 34kDa. The BMP-4 is purified by proprietary chromatographic techniques.
<b>Uniprot Accession Number</b>	P12644
<b>Amino Acid Sequence</b>	GASHASLIPE TGKKKVAEIQ GHAGGRRSGQ SHELLRDFEATLLQMFGRLRR RPQPSKSAVI PDYMRD-LYRL QSGEEEEEQI HSTGLEYPERS PASRANTVRS FHHEEHLENI PGTSENSAFR FLNLSIPE NEAIS-SAELR LFREQVDQGP DWERGFHRIN IYEVMPKPAE VVPGHLITRL LDTRLVHHNV TRWETFDVSP AVLRWTREKQ PNYGLAIEVT HLHQTRTHQG QHVRISRSLP QSGGNWAQLR PLLVTFGHDG RGHAL-TRRRR AKRSPKHHSQ RARKKNKNCR RSHLYVDFSD VGWNDWIVAP PGYQAFYCHG DCPFPLADHL
<b>Source</b>	HEK.
<b>Physical Appearance and Stability</b>	Sterile Filtered White lyophilized (freeze-dried) powder. Lyophilized BMP4 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution BMP-4 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>	The BMP-4 was lyophilized from 0.7mg/ml in 2xPBS+6% ethanol. Greater than 95% as observed by SDS-PAGE.
<b>Application</b>	
<b>Solubility</b>	It is recommended to reconstitute the lyophilized BMP-4 in sterile 4mM HCl containing 0.1% endotoxin-free recombinant HSA.
<b>Biological Activity</b>	The specific activity was determined by the dose dependent induction of alkaline phosphatase production in the ATDC-5 cell line (Mouse chondrogenic cell line) and is typically 4.53ng/ml corresponding to a Specific Activity of 220,750.55IU/mg.
<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**