

Bone Morphogenetic protein-13 Human Recombinant

Item Number	rAP-0396
Synonyms	Growth Differentiation Factor 6, Growth/Differentiation Factor 16, Bone Morphogenetic Protein 13, BMP-13, BMP13, GDF-6, Klippe-Feil Malformation, Segmentation Syndrome 1, Klip-Feil Malformation, Klippe-Feil Syndrome, MCOPCB6, SCDO4, CDMP2, LCA17, MCOP4,
Description	BMP13 Human Recombinant produced in E.coli is a non-glycosylated disulfide linked homodimer containing 2 chains of 120 amino acids and having a molecular mass of 27.1kDa. The BMP-13 is purified by proprietary chromatographic techniques.
Uniprot Accesion Number	Q6KF10
Amino Acid Sequence	TAFASRHGKR HGKKSRLRCS KKPLHVNFK E LGWDDWIIAP LEYEAYHCEG VCDFPLRSHL EPT- NHAIIQT LMNSMDPGST PPSCCVPTKL TPISILYIDA GNNVYKQYE DMVVESCGCR.
Source	Escherichia Coli.
Physical Appearance and Stability	Sterile Filtered White lyophilized (freeze-dried) powder. Lyophilized BMP13 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution BMP-13 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.
Formulation and Purity	BMP-13 protein was lyophilized from a 0.2µm filtered concentrated solution in 30% Acetonitrile and 0.1% TFA. Greater than 95.0% as determined by: (a) Analysis by HPLC.
Application	
Solubility	It is recommended to reconstitute the lyophilized BMP13 in sterile 18M-cm H2O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.
Biological Activity	The ED50 as determined by inducing alkaline phosphatase production of murine ATDC5 cells is less than 2.0µg/ml, corresponding to a specific activity of > 500IU/mg.
Shipping Format and Condition	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**