

Bone Morphogenetic protein-3 Human Recombinant

Item Number	rAP-0395
Synonyms	Bone Morphogenetic Protein 3, Osteogenin, Bone Morphogenetic Protein 3 (Osteogenic), Bone Morphogenetic Protein 3A, BMP-3A, BMP-3, Bone Morphogenetic Protein-3, BMP3A, BMP3.
Description	BMP3 Human Recombinant produced in E.coli is a non-glycosylated disulfide linked homodimer containing 2 chains of 110 amino acids and having a molecular mass of 24.8kDa. The BMP-3 is purified by proprietary chromatographic techniques.
Uniprot Accesion Number	P12645
Amino Acid Sequence	QWIEPRNCAR RYLKVDFADI GWSEWIISPK SFDAYYCSGA CQFPMPKSLK PSNHATIQSIVRAVGVVPGI PEPCCVPEKM SSLSILFFDE NKNVVLKVYP NMTVESACR.
Source	Escherichia Coli.
Physical Appearance and Stability	Sterile Filtered White lyophilized (freeze-dried) powder. Lyophilized BMP3 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution BMP-3 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-3 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 BMP3 in sterile 4mM HCl not less than 100μg/ml, which can then be further diluted to other aqueous solutions.
Biological Activity	The ED50 as determined by its ability to inhibit BMP-2-induced activity in murine MC3T3- E1 cells.
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**