



Bone Morphogenetic Protein-7 Human Recombinant, Plant

Item Number	rAP-0365
Synonyms	Osteogenic Protein 1, BMP-7.
Description	Bone Morphogenetic Protein-7 Human Recombinant produced in Plant is a monomeric, glycosylated, polypeptide chain containing 144 amino acids and having a molecular mass of 16.5kDa, and fused to a 6xHis-tag at the N-terminus. The BMP-7 is purified by proprietary chromatographic techniques.
Uniprot Accession Number	P18075
Amino Acid Sequence	HHHHHHSTGSKQRSQNRSKTPKNQEALRMANVAENSSSDQRQACKKHELYVSFRDL-GWQDWIIAPEGYAAYYCEGECAPLNSYMNATNHAIVQTLVHFINPETVPKPCCAPTQLNAISVLYFDDSSVILKKYRNMVVRACGCH.
Source	Nicotiana benthamiana.
Physical Appearance and Stability	Sterile Filtered White lyophilized (freeze-dried) powder. Lyophilized BMP-7 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution BMP 7 Human 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-7 was lyophilized from a solution containing Tris-HCl 0.05M buffer at pH 7.4. Greater than 97.0% as determined by SDS-PAGE.
Application	
Solubility	Lyophilized BMP-7 protein should be reconstituted in distilled water to a concentration of 50 ng/μl.
Biological Activity	The biological activity of BMP-7 was measured by its ability to induce alkaline phosphatase production by ATDC5 cells, ED50 is less than 40ng/ml, corresponding to a specific activity of 25,000 units/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**