

Bone Morphogenetic protein-10 Human Recombinant

Item Number	rAP-0371
Synonyms	Bone morphogenetic protein 10, BMP-10.
Description	BMP10 Human Recombinant produced in HEK cells having a molecular weight of 26.2kDa. BMP10 Human is purified by proprietary chromatographic techniques.
Uniprot Accession Number	O95393
Amino Acid Sequence	NAKGN YCKRT PLYIDFKEIG WDSWIIAPPG YEAYECRGVC NYPLAEHLTP TKHAIQALVHLKNSQKASK ACCVPTKLEP ISILYLDKGV VTYKFKYEGM AVSECGCR.
Source	HEK.
Physical Appearance and Stability	Sterile Filtered White lyophilized (freeze-dried) powder. Lyophilized BMP10 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution BMP10 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	The BMP10 protein was lyophilized from 10mM Sodium Citrate, pH 2.7 and 75mM NaCl . Greater than 95.0% as determined by analysis by SDS-PAGE and HPLC analysis.
Application	
Solubility	It is recommended to reconstitute the lyophilized BMP10 in sterile 18MΩ-cm H ₂ O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.
Biological Activity	The specific activity was determined by its ability to induce alkaline phosphatase production in the ATDC-5 cell line and is typically 4.0-6.0 ng/ml ED50.
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**