Overview

Synonyms	Bone Morphogenetic Protein-7 (BMP-7), Human;
Description	Human BMP-7 is one of at least 15 structurally and functionally related BMPs, which are members of the transforming growth factor ß (TGF-ß) superfamily. BMPs were originally identified as protein regulators of cartilage and bone formation. However, they havesince been shown to be involved in embryogenesis and morphogenesis of various tissues and organs. BMPs have also been shown to regulate the growth, differentiation, chemotaxis and apoptosis of various cell types, including mesenchymal cells, epithelial cells, hematopoietic cells and neuronal cells. BMP-7 is synthesized as large precursor molecules which are cleaved by proteolytic enzymes. The active form can consist of a dimer of two identical proteins or a heterodimer of two related bone morphogenetic proteins.
Species	Human
Source	*E. coli*
Biological Activity	Data is not available.
Sequence	STGSKQRSQN RSKTPKNQEA LRMANVAENS SSDQRQACKK HELYVSFRDL GWQDWIIAPE GYAAYYCEGE CAFPLNSYMN ATNHAIVQTL VHFINPETVP KPCCAPTQLN AISVLYFDDS SNVILKKYRN MVVRACGCH

Properties

Measured Molecular Weight	Approximately 15.7 kDa, a monomeric, non-glycosylated polypeptide chain containing 139 amino acids.
Purity	>95% by SDS-PAGE and HPLC analyses.
Formulation	Lyophilized from a 0.2µm filtered concentrated solution in 30% acetonitrile, 0.1% TFA.
Reconstitution	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in 10mM HAc to a concentration of 0.1-1.0 mg/mL. Stock solutions should be apportioned into working aliquots and stored at <-20°C. Further dilutions should be made in appropriate buffered solutions.
Endotoxin Level	Less than 0.2EU/ug of rHuBMP-7 as determined by LAL method.
Physical Appearance	Sterile Filtered White lyophilized (freeze-dried) powder.
Usage	This material is for research, laboratory or further evaluation purposes. NOT FOR HUMAN USE.
Storage	This lyophilized preparation is stable at 2-8 °C, but should be kept at -20 °C for long term storage, preferably desiccated. Upon reconstitution, the preparation is stable for up to one week at 2-8 °C. For maximal stability, apportion the reconstituted preparation into working aliquots and store at -20 °C to -70 °C. Avoid repeated freeze/thaw cycles.

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