

Data Sheet

Bone Morphogenetic Protein-7 Human Recombinant	
Catalogue Number	IY-333
Synonyms	Osteogenic Protein 1, BMP-7.
Introduction	The bone morphogenetic proteins (BMPs) are a family of secreted
	signaling molecules that can induce ectopic bone growth. Many BMPs are
	part of the transforming growth factor-beta (TGFB) superfamily. BMPs
	were originally identified by an ability of demineralized bone extract to
	induce endochondral osteogenesis in vivo in an extraskeletal site. Based
	on its expression early in embryogenesis, the BMP encoded by this gene
	has a proposed role in early development. In addition, the fact that this
	BMP is closely related to BMP5 and BMP7 has lead to speculation of
	possible bone inductive activity.
Patent Rights	The sale and/or commercial use of Recombinant Adiponectin is prohibited
	in the United States of America (U.S.A).
Description	Bone Morphogenetic Protein-7 Human Recombinant produced in E.Coli is
	a monomeric, non-glycosylated, polypeptide chain containing 139 amino
	acids and having a molecular mass of 15679.97 Dalton. The BMP-7 is
	purified by proprietary chromatographic techniques.
Source	Escherichia Coli.
Physical Appearance	Sterile Filtered White lyophilized (freeze-dried) powder.
Formulation	BMP-7 was lyophilized from a concentrated (1mg/ml) sterile solution
	containing 10mM sodium citrate pH=3.5.
Solubility	It is recommended to briefly centrifuge the vial prior to opening to bring
	the contents to the bottom. Reconstitute in 20mM-100mM acetic acid at a
	concentration of 0.1-0.5mg per ml. Stock solutions should be apportioned
	into working aliquots and stored at <-20°C. Further dilutions should be
	made in appropriate buffered solutions.
Stability	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.
Purity	Greater than 95.0% as determined by:
	(a) Analysis by RP-HPLC.
	(b) Analysis by SDS-PAGE.
Amino acid sequence	The sequence of the first five N-terminal amino acids was determined and
	was found to be Ser-Thr-Gly-Ser-Lys.
	Products are furnished for LABORATORY RESEARCH USE ONLY. The
Usage	product may not be used as drugs, agricultural or pesticidal products, food
	additives or household chemicals.