



PRODUCT DATA SHEET

Product: BMP-7 (human recombinant)

Cat. No.: BP-021 (10 µg)

Description:

BMP-7 (Osteogenic Protein 1) belongs to the Bone-growth regulatory factors that are members of the transforming growth factor-beta (TGF-beta) superfamily of proteins. They are synthesized as large precursor molecules that 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.

Molecular Weight:

15.67997 kDa

Production:

Produced in E. Coli. as a monomeric, non-glycosylated polypeptide chain containing 139 amino acids.

Amino Acid Sequence:

MANVAENSSS	DQRQACKKHE	LYVSFRDLGW
QDWIIAPEGY	AAYYCEGECA	FPLNSYMNAT
NHAIVQTLVH	FINPETVPKP	CCAPTQLNAI
SVLYFDDSSN	VILKKYRNMV	VRACGCH

Protein Content:

Determined by UV spectroscopy at 280 nm, analysis by RP-HPLC (calibrated against a known standard), and quantitative determination on SDS-PAGE (against a known standard).

Format:

Lyophilized (freeze-dried) white powder from a concentrated (1 mg/mL) sterile solution containing 10 mM sodium citrate, pH 3.5. Reconstitute with sterile water to a concentration of 0.1 mg/mL. The reconstituted BMP-7 can be further diluted into other aqueous solutions.

Purity:

Greater than 95% as determined by RP-HPLC and SDS-PAGE (reducing and non-reducing conditions). Sterile filtered.

Storage:

Lyophilized protein is very stable at -20°C long term. Reconstituted material should be aliquoted and frozen at -20°C. It is recommended to add a carrier protein (0.1% HSA or BSA) for long term storage.

Limitations:

For research use only. Not for use in humans or *in vitro* diagnostics use.

Warranty:

No warranties, expressed or implied, are made regarding the use of this product. KAMIYA BIOMEDICAL COMPANY is not liable for any damage, personal injury, or economic loss caused by this product.