



Human BMP-7

Research grade

10 µg

130-093-818

Description:

Human bone morphogenetic protein 7 (BMP-7) is a member of the transforming growth factor- β (TGF β) superfamily. Besides inducing bone and cartilage formation, BMP-7 also plays an important role in developmental processes, including cell proliferation, differentiation, apoptosis, and morphogenesis. Recombinant Human BMP-7 is a glycoprotein containing 139 amino acid residues, which correspond to amino acid residues 293–431 of the full-length BMP-7 precursor (mature BMP-7). The glycosylation of BMP-7 increases the molecular mass and the glycosylated protein migrates at 25–40 kDa in SDS-PAGE under non-reducing conditions.

Source:	CHO cells
Molecular mass:	25–40 kDa
Specific activity:	$\geq 1 \times 10^4$ U/mg
Purity:	>97% (SDS-PAGE, HPLC)
Endotoxin level:	<0.1 ng/µg (1 EU/µg)
Buffer:	Glycine (20 mM, pH 4) Tween 20 (0.005%)
Stabilizer:	Sucrose, mannitol
Product format:	Sterile filtered, lyophilized

Biological activity:

The ED₅₀ as measured by alkaline phosphatase activity assay using MC3T3-E1 cells is ≤ 100 ng/mL.

Reconstitution:

We recommend to reconstitute Human BMP-7 in sterile 20 mM acetic acid at concentrations not less than 100 µg/mL, which then can be further diluted to other aqueous solutions. Addition of carrier protein, such as 0.1% bovine serum albumin (BSA) or human serum albumin (HSA) may have stabilizing effects.

Storage:

Lyophilized BMP-7 is stable at room temperature for 3 weeks but best stored at -20 °C. Reconstituted BMP-7 can be stored at 4 °C for up to 7 days and for future use in working aliquots at -20 °C. Please avoid repeated freeze-thaw cycles.

All protocols and data sheets are available at www.miltenyibiotec.com.

Warranty

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