

## PRODUCT INFORMATION

# Bone Morphogenetic Protein-7, human, recombinant (rhBMP-7)

● **Catalog Number** PGR105

● **Source**

N	C
Human BMP-2 (Met 1 – Arg 282)	Human BMP-7 (Ser 293 – Arg 431)

The DNA sequence encoding the human BMP-2 signal peptide and propeptide (1~282 amino acid) fused to the human BMP-7 mature chain (293~431 amino acid) was expressed in a **Chinese hamster ovary cell line**.

● **Molecular Mass** The mature recombinant BMP-7 generated by the proteolytic removal of the signal peptide and propeptide contains 139 amino acid residues. The glycosylation of BMP-7 increases the molecular mass and the glycosylated proteins migrate as 25 ~ 40 kDa in SDS-PAGE under non-reducing conditions.

● **Purity** > 97%, as determined by SDS-PAGE under non-reducing condition and visualized by silver stain.

● **Endotoxin Level** < 1.0 EU per 1 $\mu$ g of the recombinant BMP-7 as determined by the LAL method.

● **Biological Activity** The biological activity of PanGen's recombinant human BMP-7 was measured in alkaline phosphatase activity assay using MC3T3-E1 cells. The ED<sub>50</sub> for this effect is < 100 ng/mL.

● **Formulation** The sterile filtered solution in 4 mM HCl containing 50  $\mu$ g of bovine serum albumin per 1  $\mu$ g of cytokine.  
(Bovine serum albumin free rhBMP-7 is also available.)

● **Storage** This cytokine can be stored under sterile conditions at 4°C for two months or at -70°C for six months without detectable loss of activity.  
**Avoid repeated freeze-thaw cycles.**

For research use only. Not for use in Humans