

Active Recombinant Mouse Bone Morphogenetic Protein 10

Cat. No. Bmp10-575M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Bmp10 protein was expressed in Chinese Hamster Ovary cell line. Asn314-Arg421.
Species	Mouse
Source	CHO
Protein Length	314-421 a.a.
Description	Bmp10, along with BMP9, GDF5, 6, and 7, belongs to a subgroup of TGFβ superfamily proteins that signal through heterodimeric complexes composed of type I and type II BMP receptors. Proteolytic removal of the propeptide from the 60 kDa proprotein yields a 12 kDa mature Bmp10 which forms disulfide-linked nonglycosylated homodimers.
Form	Lyophilized from a 0.2 μm filtered solution in PBS.
N-terminal Sequence	Asn314
Molecular Weight	12.1 kDa (monomer)
Activity	Measured by its ability to induce alkaline phosphatase production by MC3T3-E1 mouse osteoblastic cells. The ED50 for this effect is typically 15-75 ng/mL.
Endotoxin Level	< 1.0 EU per 1 μg of the protein by the LAL method.

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SDS-PAGE	10 kDa, reducing conditions.
Purity	> 95%, by SDS-PAGE under reducing conditions and visualized by silver stain.
Reconstitution	250 µg/mL in 4 mM HCl containing at least 0.1% human or bovine serum albumin.
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70°C as supplied. 1 month, 2 to 8°C under sterile conditions after reconstitution. 3 months, -20 to -70°C under sterile conditions after reconstitution.

GENE INFORMATION

Gene Name	Bmp10 bone morphogenetic protein 10 [<i>Mus musculus</i>]
Official Symbol	Bmp10
Synonyms	Bmp10; bone morphogenetic protein 10; BMP-10
Gene ID	12154
mRNA Refseq	NM_009756
Protein Refseq	NP_033886
Chromosome Location	6; 6 D2
Function	cytokine activity; growth factor activity; receptor serine/threonine kinase binding

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