Active Recombinant Mouse Bone Morphogenetic Protein 10

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

SPECIFICATION

Product Overview	Recombinant Mouse Bmp10protein was expressed in Chinese Hamster Ovary cell line. Asn314-Arg421.
Species	Mouse
Source	CHO
ProteinLength	314-421 a.a.
Description	Bmp10, along with BMP9,GDF5, 6, and 7, belongs to a subgroup of TGFβ superfamily proteins thatsignal through heterodimeric complexes composed of type I and type II BMPreceptors. Proteolytic removal of the propeptide from the 60 kDa proproteinyields a 12 kDa mature Bmp10 which forms disulfidelinked nonglycosylatedhomodimers.
Form	Lyophilized from a0.2 μm filtered solution in PBS.
N-terminalSequence	Asn314
Molecular Weight	12.1 kDa (monomer)
Activity	Measured by itsability to induce alkaline phosphatase production by MC3T3-E1 mouseosteoblastic cells. The ED50 for this effect is typically 15-75 ng/mL.
Endotoxin Level	< 1.0 EU per 1 μgof the protein by the LAL method.

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

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

GENE INFORMATION

Gene Name	Bmp10 bone morphogeneticprotein 10 [Mus musculus]
Official Symbol	Bmp10
Synonyms	Bmp10; bonemorphogenetic 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

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA