

Active Recombinant Human BMP4 Protein (Lys303-Arg408), C-His tagged, Animal-free, Carrier-free

Cat. No. BMP4-279H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human BMP4 Protein (Lys303-Arg408) with C-His tag was expressed in E. coli and Animal-free as well as Carrier-free.
Species	Human
Source	E.coli
ProteinLength	Lys303-Arg408
Description	Bone Morphogenetic Protein-4 (BMP-4) is an extracellular multifunctional signaling cytokine that is also a member of the TGF- β family. BMP-4 can bind with the TGF- β receptor and trigger SMAD protein signal transduction. BMP-4 has a significant expression in the prostate, it plays a vital role in the development of mesoderm into bones and the development of the epidermis and Dorsal-Ventral axis.
Form	Lyophilized
Bio-activity	Measure by its ability to induce alkaline phosphatase production by ATDC5 cells. The ED50 for this effect is < 0.58 ng/mL.
Molecular Mass	The protein has a calculated MW of 12.88 kDa. The protein migrates as 12 kDa under reducing condition (SDS-PAGE analysis).
Endotoxin	< 0.1 EU/ μ g of the protein by the LAL method.

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Purity	>95% as determined by SDS-PAGE analysis.
Storage	This product is stable after storage at: -20 centigrade for 12 months in lyophilized state from date of receipt. -20 or -80 centigrade for 1 month under sterile conditions after reconstitution. Avoid repeated freeze/thaw cycles.
Storage Buffer	Lyophilized from a 0.2 µm filtered solution containing 20 mM sodium carbonate, pH 9.0.
Reconstitution	It is recommended to reconstitute the lyophilized protein in 4 mM HCl to a concentration not less than 200 µg/mL and incubate the stock solution for at least 20 min to ensure sufficient re-dissolved.
Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at -20 centigrade or lower for long term storage.

GENE INFORMATION

Gene Name	BMP4 bone morphogenetic protein 4 [Homo sapiens (human)]
Official Symbol	BMP4
Synonyms	BMP4; bone morphogenetic protein 4; BMP2B; BMP-4; BMP-2B; bone morphogenetic protein 2B; ZYME; OFC11; BMP2B1; MCOPS6;
Gene ID	652
mRNA Refseq	NM_001202
Protein Refseq	NP_001193

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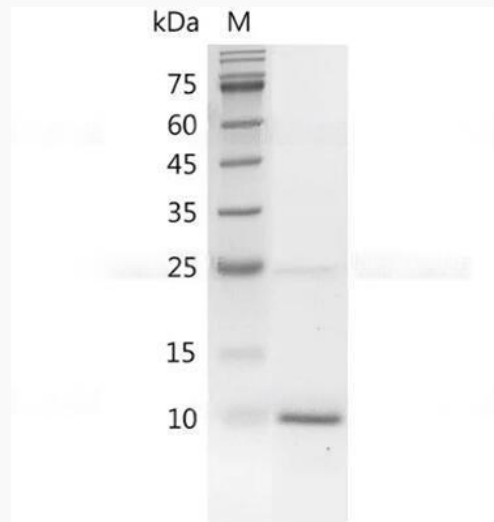
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MIM 112262

UniProt ID P12644

**SDS-PAGE analysis
of recombinant
human BMP-4.**



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