

Active Recombinant Human BMP3 Protein (Gln363-Arg472), C-His tagged, Animal-free, Carrier-free

Cat. No. BMP3-278H Lot. No. (See product label)

SPECIFICATION

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| Product Overview | Recombinant Human BMP3 Protein (Gln363-Arg472) with C-His tag was expressed in E. coli and Animal-free as well as Carrier-free. |
| Species | Human |
| Source | E.coli |
| ProteinLength | Gln363-Arg472 |
| Description | Bone Morphogenetic Protein-3 (BMP-3) is an extracellular multifunctional signaling cytokine that is also a member of the TGF- β family. BMP-3 can bind with TGF- β receptor and participate in SMAD protein signal transduction through triggering pathway-restricted SMAD protein phosphorylation. The primary function of BMP-3 is osteoblast differentiation and Induces bone formation. |
| Form | Lyophilized |
| Bio-activity | Measure by its ability to inhibit BMP-2-induced alkaline phosphatase production by ATDC5 cells. The ED50 for this effect is < 10 μ g/mL. |
| Molecular Mass | The protein has a calculated MW of 13.34 kDa. The protein migrates as 14 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 2 weeks under sterile conditions after reconstitution. Avoid repeated freeze/thaw cycles. |
| Storage Buffer | Lyophilized from a 0.2 µm filtered solution containing 20 mM sodium citrate and 0.2 M NaCl, pH 3.5. |
| 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

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| Gene Name | BMP3 bone morphogenetic protein 3 [Homo sapiens (human)] |
| Official Symbol | BMP3 |
| Synonyms | BMP3; bone morphogenetic protein 3; bone morphogenetic protein 3 (osteogenic); osteogenin; BMP-3; bone morphogenetic protein-3; bone morphogenetic protein 3A; BMP-3A; |
| Gene ID | 651 |
| mRNA Refseq | NM_001201 |

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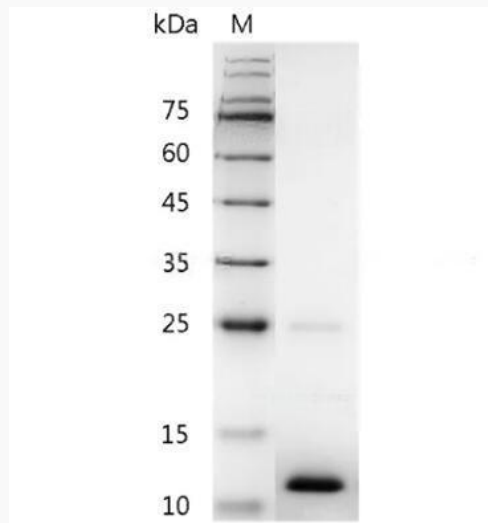
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Protein Refseq NP_001192

MIM 112263

UniProt ID P12645

**SDS-PAGE analysis
of recombinant
human BMP-3.**



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