

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

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

SPECIFICATION

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

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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Protein Refseq	NP_001192
MIM	112263
UniProt ID	P12645

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