

Active Recombinant Human BMP7 Protein (Met315-His431), C-His tagged, Animal-free, Carrier-free

Cat. No. BMP7-282H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human BMP7 Protein (Met315-His431) with C-His tag was expressed in E. coli and Animal-free as well as Carrier-free.
Species	Human
Source	E.coli
ProteinLength	Met315-His431
Description	Bone Morphogenetic Protein-7 (BMP-7) is an extracellular multifunctional cytokine that is also a member of the TGF- β family. BMP7 can significantly inhibit TGF- β through binding with TGF- β receptor and trigger SMAD transcription factors, such as SMAD 1 /5/8. It plays a vital role in inhibiting the expansion of kidney damage and promoting the differentiation of osteoblasts.
Form	Lyophilized
Bio-activity	Measure by its ability to induce alkaline phosphatase production by ATDC5 cells. The ED50 for this effect is < 0.65 μ g/mL.
Molecular Mass	The protein has a calculated MW of 14.00 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 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	BMP7 bone morphogenetic protein 7 [Homo sapiens (human)]
Official Symbol	BMP7
Synonyms	BMP7; bone morphogenetic protein 7; OP 1; osteogenic protein 1; BMP-7; OP-1;
Gene ID	655
mRNA Refseq	NM_001719
Protein Refseq	NP_001710

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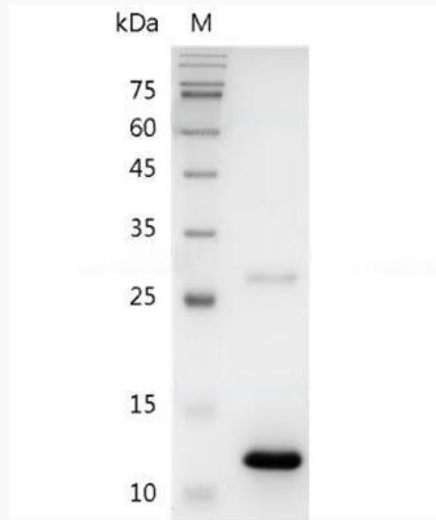
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MIM 112267

UniProt ID P18075

**SDS-PAGE analysis
of recombinant
human BMP-7.**



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