

Active Recombinant Human BMP7, HlgG1 Fc-tagged, mutant

Cat. No. BMP7-508H Lot. No. (See product label)

SPECIFICATION

Product Overview	The extracellular domain of human BMP-7 (NP_001710.1) (Arg292-Cys430) is fused to the N-terminus of the Fc region of a mutant human IgG1 was expressed in CHO cell.
Species	Human
Source	CHO
ProteinLength	292-430 a.a.
Description	The bone morphogenetic proteins (BMPs) are a family of secreted signaling molecules that can induce ectopic bone growth. Many BMPs are part of the transforming growth factor-beta (TGFB) superfamily. BMPs were originally identified by an ability of demineralized bone extract to induce endochondral osteogenesis in vivo in an extraskeletal site. Based on its expression early in embryogenesis, the BMP encoded by this gene has a proposed role in early development and possible bone inductive activity.
Form	Lyophilized from 0.2µm-filtered solution in PBS.
Bio-activity	Measured by its ability to induce alkaline phosphatase production.
Molecular Mass	42KDa (monomer)
AA Sequence	Arg292-Cys430

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

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Endotoxin	<0.06 eu/μg="" as="" determined="" by="" la="" test="">
Purity	>98%, by SDS-PAGE under reducing conditions.
Stability	Stable for at least 1 year after receipt when stored at -20°C. Working aliquots are stable for up to 3 months when stored at -20°C.
Reconstitution	Reconstitute at 100μg/ml in sterile PBS.
Warning	Avoid freeze/thaw cycles.

GENE INFORMATION

Gene Name	BMP7 bone morphogenetic protein 7 [Homo sapiens]
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
MIM	112267
UniProt ID	P18075
Chromosome Location	20q13

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Pathway

ALK2 signaling events, organism-specific biosystem; BMP receptor signaling, organism-specific biosystem; Cytokine-cytokine receptor interaction, organism-specific biosystem; Cytokine-cytokine receptor interaction, conserved biosystem; Endochondral Ossification, organism-specific biosystem; Hedgehog signaling pathway, organism-specific biosystem; Hedgehog signaling pathway, conserved biosystem;

Function

cytokine activity; growth factor activity; protein binding; contributes_to protein binding;

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