

Active Recombinant Human BMP2, HlgG1 Fc-tagged, mutant

Cat. No. BMP2-56H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	The extracellular domain of human BMP-2 (NP_001191.1) (Arg289-Arg396) 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	289-396 a.a.
Description	The protein encoded by this gene belongs to the transforming growth factor-beta (TGFB) superfamily. The encoded protein acts as a disulfide-linked homodimer and induces bone and cartilage formation
Form	Lyophilized from 0.2µm-filtered solution in PBS.
Bio-activity	Measured by its ability to induce alkaline phosphatase production by ATDC5 mouse chondrogenic cells.
Molecular Mass	42 KDa (monomer)
AA Sequence	Arg289-Arg396
Endotoxin	<0.06 eu/µg="" as="" determined="" by="" la="">

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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	BMP2 bone morphogenetic protein 2 [Homo sapiens]
Official Symbol	BMP2
Synonyms	BMP2; bone morphogenetic protein 2; BMP2A; BMP-2A; bone morphogenetic protein 2A; BDA2;
Gene ID	650
mRNA Refseq	NM_001200
Protein Refseq	NP_001191
MIM	112261
UniProt ID	P12643
Chromosome Location	20p12
Pathway	Adipogenesis, organism-specific biosystem; BMP Signalling Pathway, organism-

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specific biosystem; Basal cell carcinoma, organism-specific biosystem; Basal cell carcinoma, conserved biosystem; Cytokine-cytokine receptor interaction, organism-specific biosystem; Cytokine-cytokine receptor interaction, conserved biosystem; Heart Development, organism-specific biosystem;

Function

BMP receptor binding; SMAD binding; activin receptor activity, type II; cytokine activity; growth factor activity; phosphatase activator activity; protein binding; protein domain specific binding; protein heterodimerization activity; protein homodimerizat

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