

Active Recombinant Human/Rhesus macaque/Mouse/Rat/Canine BMP2 protein

Cat. No. BMP2-35H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Active Recombinant Human/Rhesus macaque/Mouse/Rat/Canine BMP2 protein(P12643(Human) / G7N2Y0(Rhesus macaque) / P21274(Mouse) / P49001(Rat) / A0A8I3PXE9(Canine))(Gln283-Arg396 (Human/Rhesus macaque) / Gln279-Arg393 (Mouse/Rat) / Gln282-Arg395 (Canine)) is expressed from E.coli without tag.
Species	Human/Rhesus macaque/Mouse/Rat/Canine
Source	E.coli
ProteinLength	283-396 aa(Human/Rhesus macaque) / 279-393 aa(Mouse/Rat) / 282-395 aa(Canine)
Form	Lyophilized from 0.22µm filtered solution in 100mM Acetic Acid (pH 2.8).
Bio-activity	Measured by its ability to induce Alkaline Phosphatase production by ATDC5 mouse chondrogenic cells. The ED50 for this effect is 100-400 ng/mL.
Molecular Mass	The protein has a predicted MW of 12.90 kDa same as Bis-Tris PAGE result.
Endotoxin	Less than 0.5 EU per µg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE

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Storage	-20 to -80°C for 12 months as supplied from date of receipt. -80°C for 3 months after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.
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Reconstitution	Dissolve the lyophilized protein in distilled water.
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GENE INFORMATION

Gene Name	BMP2 bone morphogenetic protein 2 [Homo sapiens]
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Official Symbol	BMP2
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Synonyms	BMP2; bone morphogenetic protein 2; BMP2A; BMP-2A; bone morphogenetic protein 2A; BDA2;
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Gene ID	650
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mRNA Refseq	NM_001200
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Protein Refseq	NP_001191
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MIM	112261
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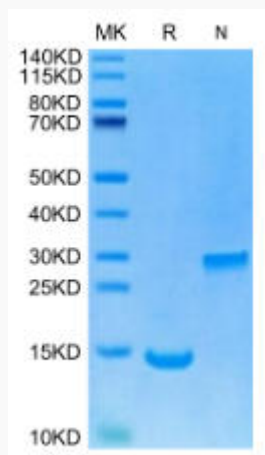
UniProt ID	P12643
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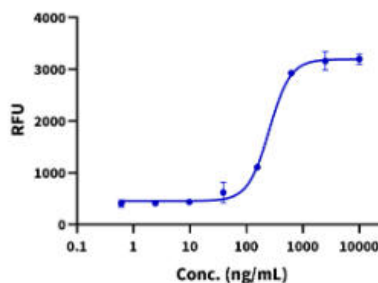
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Bis-Tris PAGE



Cell Based Assay

Human/Rhesus macaque/Mouse/Rat/Canine BMP2 Bioactivity



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