

RP01134

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Recombinant Human BMP-2 Protein

Catalog No.: RP01134 **Recombinant**

Sequence Information

Species	Gene ID	Swiss Prot
Human	650	P12643

Tags

No tag

Synonyms

BDA2;BMP2A;BMP2

Background

This protein is a secreted ligand of the TGF-beta (transforming growth factor-beta) superfamily of proteins. Ligands of this family bind various TGF-beta receptors leading to recruitment and activation of SMAD family transcription factors that regulate gene expression. The encoded preproprotein is proteolytically processed to generate each subunit of the disulfide-linked homodimer, which plays a role in bone and cartilage development. Duplication of a regulatory region downstream of this gene causes a form of brachydactyly characterized by a malformed index finger and second toe in human patients.

Basic Information

Description

Recombinant Human BMP-2 Protein is produced by *E. coli* expression system. The target protein is expressed with sequence (Gln283-Arg396) of human BMP-2 (Accession #NP_001191.1).

Bio-Activity

Measured by its binding ability in a functional ELISA. Immobilized Human BMP2 at 4 µg/mL (100 µL/well) can bind Human BMPRII with a linear range of 20-338ng/mL.

Storage

Store the lyophilized protein at -20°C to -80 °C for long term. After reconstitution, the protein solution is stable at -20 °C for 3 months, at 2-8 °C for up to 1 week. Avoid repeated freeze/thaw cycles.

Product Information

Source

E. coli

Purification

> 95 % by SDS-PAGE.

Endotoxin

Please contact us for more information.

Formulation

Lyophilized from a 0.22 µm filtered solution 30 % CAN, 0.1 % TFA, pH 2.9. Contact us for customized product form or formulation.

Reconstitution

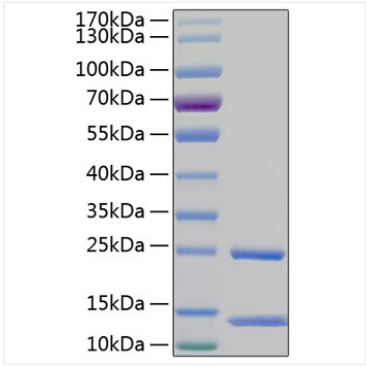
Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water.

Contact

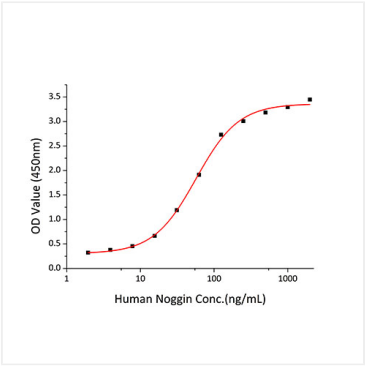


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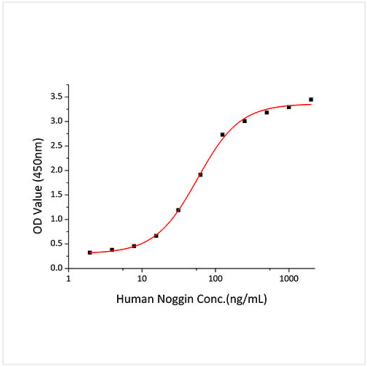
Validation Data



Recombinant Human BMP-2 Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 13 & 25 kDa.



Immobilized Human BMP2 at 4 µg/mL (100 µL/well) can bind Human BMPRII with a linear range of 20-338ng/mL.



Immobilized recombinant Human BMP2 at 1 µg/mL (100 µL/well) can bind Human Noggin with a linear range of 4-57 ng/mL.