BOSTER BIOLOGICAL TECHNOLOGY
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Human recombinant BMP-2 (Bone morphogenetic protein-2) protein, AF

Catalog Number: PROTP12643-7

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Overview

Product Name	Human recombinant BMP-2 (Bone morphogenetic protein-2) protein, AF
Description	Bone Morphogenetic Protein-2 (BMP-2) is an extracellular multifunctional signaling cytokine that is also a member of the TGF-beta family. BMP-2 can bind with the TGF-beta receptor to active SMAD protein signal transduction. Moreover, it engages in the path of signals such as Wnt and Notch. BMP-2 plays an essential role in the growth of hard bones and cartilage and involved in the differentiation of osteoblasts.
Size	5ug,20ug,100ug
Tag	His Tag (C-term)
Form	Lyophilized
Source	Escherichia coli
Formulation	The protein was lyophilized from a 0.2 um filtered solution containing 20 mM sodium citrate, 0.2 M NaCl, pH 3.5. If you have any concerns or special requirements, please confirm with us.

Storage

Lyophilized protein should be stored at -20°C for 1 year. Upon reconstitution, store at 2°C to 8°C for up to 1 week. Further dilute in a buffer containing a carrier protein or stabilizer (e.g. 0.1% BSA, 10%FBS, 5%HSA or 5% trehalose solution), protein aliquots should be stored at -20°C or -80°C for 3-6 months. Avoid repeated freeze/thaw cycles.

Purity

>95% as determined by SDS-PAGE.

Molecular weight

The protein has a calculated MW of 13.76 kDa. The protein migrates as 14 kDa under reducing condition (SDS-PAGE analysis).

Activity

Measure by its ability to induce alkaline phosphatase production by ATDC5 cells. The ED_{50} for this effect is <1.0 ug/mL.

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Endotoxin

<0.1 EU per 1 ug of the protein by the LAL method.

Amino Acid Sequence

MQAKHKQRKRLKSSCKRHPLYVDFSDVGWNDWIVAPPGYHAFYCHGECPFPLADHLNSTNHAIVQTLVNSVNSKIPKACCVPTELSAISMLYLDENEK VVLKNYQDMVVEGCGCR with polyhistidine tag at the C-terminus

Reconstitution

Centrifuge at 3000 rpm for 5 mins before opening. It is recommended to reconstitute the lyophilized protein in sterile H_2O to a concentration not less than 100 ug/mL and incubate the stock solution at room temperature for at least 20 mins to ensure sufficient re-dissolved. Do Not Vortex! Vigorous shaking may impair the biological activity of the protein.

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Usage

Boster's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

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