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## Recombinant Human BMP-3 protein(His Tag)

Catalog Number: PKSH034129

Note: Centrifuge before opening to ensure complete recovery of vial contents.

## Description

Species Human

Source E.coli-derived Human BMP-3 protein Gln 363-Arg 472, with an C-terminal His

Calculated MW 13.2 kDa
Observed MW 14 kDa
Accession P12645

**Bio-activity** Measure by its ability to inhibit BMP-2-induced alkaline phosphatase production by

ATDC5 cells. The ED<sub>50</sub> for this effect is  $< 10 \mu g/mL$ .

## **Properties**

**Purity** > 95 % as determined by reducing SDS-PAGE.

Endotoxin < 0.1 EU per µg of the protein as determined by the LAL method.

Storage Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80

°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of

reconstituted samples are stable at < -20°C for 3 months.

**Shipping** This product is provided as lyophilized powder which is shipped with ice packs.

**Formulation** Lyophilized from sterile 20 mM sodium citrate, 0.2 M NaCl, pH 3.5.

Normally 5% - 8% trehalose, mannitol and 0.01% Tween 80 are added as protectants

before lyophilization.

Please refer to the specific buffer information in the printed manual.

**Reconstitution** Please refer to the printed manual for detailed information.

## Background

Growth factor of the TGF-beta superfamily that plays an essential role in developmental process by inducing and patterning early skeletal formation and by negatively regulating bone density. Antagonizes the ability of certain osteogenic BMPs to induce osteoprogenitor differentitation and ossification. Initiates signaling cascades by associating with type II receptor ACVR2B to activate SMAD2-dependent and SMAD-independent signaling cascades including TAK1 and JNK pathways.