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Recombinant Swine BMP-4 protein(His Tag)

Catalog Number: PKSS000011

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

Description

Species Porcine

Source E.coli-derived Porcine BMP-4 protein Arg 227-Cya 408, with an C-terminal His

 Calculated MW
 21.7 kDa

 Observed MW
 17-25 kDa

 Accession
 NP 001094501.1

Bio-activity Not validated for activity

Properties

Purity > 98 % as determined by reducing SDS-PAGE.

Endotoxin $< 0.1 \text{ EU per } \mu \text{g of the protein as determined by the LAL method.}$

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.

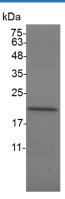
Normally 5% - 8% trehalose, mannitol and 0.01% Tween 80 are added as protectants

before lyophilization.

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

Reconstitution Please refer to the printed manual for detailed information.

<u>Da</u>ta



> 98 % as determined by reducing SDS-PAGE.

Background

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Growth factor of the TGF-beta superfamily that plays essential roles in many developmental processes, including neurogenesis, vascular development, angiogenesis and osteogenesis. Acts in concert with PTHLH/PTHRP to stimulate ductal outgrowth during embryonic mammary development and to inhibit hair follicle induction. Initiates the canonical BMP signaling cascade by associating with type I receptor BMPR1A and type II receptor BMPR2. Once all three components are bound together in a complex at the cell surface, BMPR2 phosphorylates and activates BMPR1A. In turn, BMPR1A propagates signal by phosphorylating SMAD1/5/8 that travel to the nucleus and act as activators and repressors of transcription of target genes. Can also signal through non-canonical BMP pathways such as ERK/MAP kinase, PI3K/Akt or SRC cascades. For example, induces SRC phosphorylation which, in turn, activates VEGFR2, leading to an angiogenic response.