

Recombinant Human BMP-3 protein(His Tag)

Catalog Number:PKSH034129



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

Description

Synonyms	Osteogenin;BMP-3A
Species	Human
Expression Host	E.coli
Sequence	Gln 363-Arg 472
Accession	P12645
Calculated Molecular Weight	13.2 kDa
Observed molecular weight	14 kDa
Tag	C-His
Bioactivity	Measure by its ability to inhibit BMP-2-induced alkaline phosphatase production by ATDC5 cells. The ED ₅₀ for this effect is < 10 µg/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% Tween80 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 differentiation 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.

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