

Recombinant Mouse BMP-3B/GDF-10 Protein

Catalog No.: RP03250

Sequence Information

Species	Gene ID
Mouse	14560
Swiss Prot	Tags
P97737	N-hFc

Synonyms

Growth/differentiation factor 10;
Gdf10; GDF-10; Bone
morphogenetic protein 3B; BMP-
3B; Bmp3b

Product Information

Source	Purification
HEK293 cells	≥ 95 % as determined by SDS-PAGE.

Calculated MW

40.8 kDa

Observed MW
40–45 kDa

Endotoxin

< 1 EU/μg of the protein by LAL
method.

Formulation

Lyophilized from a 0.22 μm filtered
solution of PBS, pH 7.4. Contact us
for customized product form or
formulation.

Reconstitution

Centrifuge the vial before opening.
Reconstitute to a concentration of
0.1–0.5 mg/mL in sterile distilled
water. Avoid vortex or vigorously
pipetting the protein. For long
term storage, it is recommended
to add a carrier protein or stabilizer
(e.g. 0.1% BSA, 5% HSA, 10% FBS
or 5% Trehalose), and aliquot the
reconstituted protein solution to
minimize free-thaw cycles.

Background

BMP-3b / GDF-10 is a member of the bone morphogenetic protein (BMP) family and the TGF-beta superfamily. This group of proteins is characterized by a polybasic proteolytic processing site which is cleaved to produce a mature protein containing seven conserved cysteine residues. The members of this family are regulators of cell growth and differentiation in both embryonic and adult tissues. Studies in mice suggest that the protein encoded by this gene plays a role in skeletal morphogenesis. In the bone morphogenetic cascade, cartilage differentiation, hypertrophy, and cell death are followed by bone formation. In this regard, all BMPs are cartilage morphogenetic proteins since cartilage is formed first. An overexpression or dysregulation of BMP pathways may lead to heterotopic bone formation or fibrodysplasia ossificans progressiva (FOP). BMPs have been implicated in FOP. The pioneering work of Sakou has implicated BMP-3b / GDF-10 in ossification of the posterior longitudinal ligament of the spine in Japanese patients. The BMP-specific antagonists such as noggin or chordin might be used therapeutically in clinical conditions with pathologically excessive bone formation.

Basic Information

Description

Recombinant Mouse BMP-3B/GDF-10 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Gln367–Arg476) of mouse BMP-3B/GDF-10 (Accession #NP_665684.2) fused with hFc tag at the N-terminus.

Activity

Shipping

Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

Storage

Store at -20°C

Operational Notes

For your safety and health, please wear a lab coat and disposable gloves for handling.

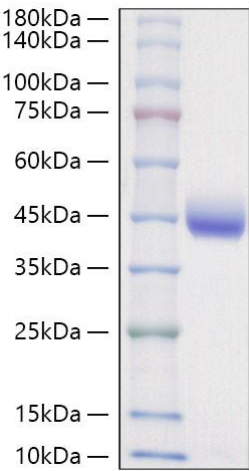
Contact

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Validation Data



Recombinant Mouse BMP-3B/GDF-10 Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.