

Recombinant Human Mature BMP-9/GDF-2 Protein

Catalog No.: RP00722

Sequence Information

Species **Gene ID**
Human 2658

Swiss Prot **Tags**
Q9UK05 NO-Tag

Synonyms

GDF2, BMP9, Growth
/differentiation factor 2, GDF-2,
Bone morphogenetic protein 9,
BMP-9

Product Information

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

Calculated MW **Observed MW**
12.09 kDa 10-20 kDa

Endotoxin

< 0.1 EU/μg of the protein by LAL
method.

Formulation

Lyophilized from 0.22μm filtered
solution in PBS (pH 7.4).

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-9 is a member of the BMP subgroup of the TGF-beta superfamily proteins that signal through heterodimeric complexes composed of type I and type II BMP receptors. GDF-2 Potent circulating inhibitor of angiogenesis. Signals through the type I activin receptor ACVRL1 but not other Alks. Signaling through SMAD1 in endothelial cells requires TGF-beta coreceptor endoglin/ENG. ALK1 is a signalling receptor for bone morphogenetic protein-9 (BMP-9) in endothelial cells (ECs). BMP-9 bound with high affinity to ALK1 and endoglin, and weakly to the type-I receptor ALK2 and to the BMP type-II receptor (BMPRII) and activin type-II receptor (ActRII) in transfected COS cells.

Basic Information

Description

Recombinant Human Mature BMP-9/GDF-2 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Ser320-Arg429) of Human Mature BMP-9/GDF-2 (Accession # Q9UK05) fused with no tag.

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.

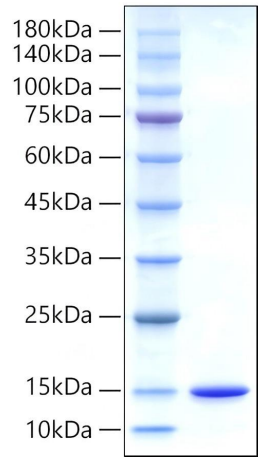
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Validation Data



Recombinant Human Mature BMP-9/GDF-2 Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.