

RMCH073

Recombinant BMP-11 (Bone morphogenetic protein-11),
Human , AF



5ug;20ug;100ug;500ug;

| | |
|----------------|--------------------------------------|
| Order | 021-34695924 orders@ab-mart.com |
| Support | 400-6123-828 support1@ab-mart.com |
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Synonym/Alternative name(s):

Growth/Differentiation Factor-11, GDF-11

Activity:

Measure by its ability to induce alkaline phosphatase production by ATDC5 cells.

The ED50 for this effect is <11 ng/mL.

Measure by its ability to induce hemoglobin expression in K562 cells.

The ED50 for this effect is <4 ng/mL.

Protein Description:

BMPs (bone morphogenetic proteins) belong to the TGF-beta superfamily of structurally related signaling proteins. BMP-11 is a regulator of cell growth and differentiation during muscular and neural development. BMP-11 binds the transforming growth factor-beta receptors ALK4, ALK5, and ALK7 to activate SMAD signaling. In adults, exogenous BMP-11 promotes cardiomyocyte regeneration to reverse age-related cardiac hypertrophy.

Protein Accession : O95390

Gene ID : 10220

Expression Sequence:

MNLGLDCDEHSSESRCRYPLTVDFEAFGWDWIIAPKRYKANYCSGQCEYMFQMYPHTLHVQQANPRGSAGPCCTPTKMSPINML
YFNDKQQIYIGKIPGMVVDRCGCS with polyhistidine tag at the C-terminus.

Fusion tag : His-tag?at?the?C-terminus

Species : Human

Reactivity : Human

Expression Host : Escherichia coli

Source : E. coli

Purity/method:

>98% as determined by SDS-PAGE. Ni-NTA chromatography

Endotoxin level:

<0.1 EU per 1 µg of the protein by the LAL method.

Calculated Molecular Weight : 13.40 kDa

Formulation:

The protein was lyophilized from a solution containing 20 mM sodium citrate, 0.2 M NaCl, pH 3.5.

Reconstitution:

It is recommended to reconstitute the lyophilized protein in sterile H₂O to a concentration not less than 100 µg/mL and incubate the stock solution for at least 20 min to ensure sufficient re-dissolved.

Shipping : Blue Ice

Stability and Storage:

Lyophilized protein should be stored at -20°C for 1 year.

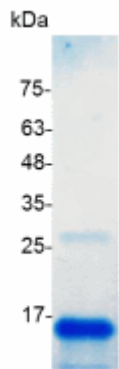
Upon reconstitution, store at 2°C to 8°C for up to 1 week. Further dilute in a buffer containing a carrier protein or stabilizer (e.g. 0.1%

BSA, 10%FBS, 5%HSA or 5% trehalose solution), protein aliquots should be stored at -20°C or -80°C for 3-6 months.

Category : Cytokines

Application : Cell culture, Elisa

Image:



SDS- PAGE analysis of recombinant human BMP-11