

Recombinant Human Bone Morphogenetic Protein-2 CHO (rh BMP-2 CHO)

Synonyms: BMP2A

Introduction: BMP-2 belongs to the transforming growth factor-beta (TGFB) superfamily. Bone morphogenic protein induces bone formation. BMP-2 is a candidate gene for the autosomal dominant disease of fibrodysplasia (myositis) ossificans progressiva.

Description: Recombinant human Bone Morphogenetic Protein-2 CHO produced in CHO is a homodimeric, glycosylated, Polypeptide chain containing 115 amino acids and having a calculated molecular mass of 26018 Dalton. Due to its glycosilation, BMP-2 migrates on SDS-PAGE under non-reducing conditions at 36kDa and 18kDa under reducing conditions.

The BMP-2 CHO derived protein is purified by proprietary chromatographic techniques.

Source: *Chinese Hamster Ovarian Cells*

Physical Appearance: Sterile filtered white lyophilized (freeze-dried) powder.

Formulation: 1mcg of BMP-2 was lyophilized from a sterile solution containing 0.2% sucrose, 2.5% glycine, 0.01% tween-80, 0.01% NaCl and 3% mannitol.

The aliquots of 1µg and 2 µg contain Trehalose 5% (w/vol) for better recovery

Solubility: It is recommended to reconstitute the lyophilized Bone Morphogenetic Protein-2 in sterile water at a concentration of 100µg/ml, which can then be further diluted to other aqueous solutions.

Stability: Lyophilized Bone Morphogenetic Protein-2 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution BMP2 should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).

Please prevent freeze-thaw cycles

Purity: Greater than 95.0% as determined by:

(a) Analysis by SEC-HPLC.

(b) Analysis by SDS-PAGE.

Biological Activity: The ED₅₀ as determined by cytolysis of ATDC-5 cell is less than 50ng/ml.

This material is offered for **research only**. Not for use in human. For in vitro use only. ImmunoTools will not be held responsible for patent infringement or other violations that may occur with the use of our products.

<i>small</i>	2 µg	Cat.N°	11344272
<i>medium</i>	10 µg	Cat.N°	11344273
<i>large</i>	50 µg	Cat.N°	11344275

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