

## Recombinant human BMP-2 (Active,Tag free)

- Cat. Number:** ck0020
- Quantity size:** 10µg / 50ug / 500µg
- Protein Sequence:** 283-396aa, Tag free, full length mature protein
- Swiss-Prot:** P12643
- Gene ID:** 650
- Source:** Human cells derived
- Structure:** Glycosylated monomer
- Purity:** >95% by SDS-PAGE
- MW:** 30-38kDa
- Endotoxin Level:** <0.5EU/ug
- Formulation:** Lyophilized from a 0.2µm filtered solution in PBS without carrier protein  
Animal and Xeno free
- Activity Assay:** The activity was measured by its ability to induce alkaline phosphatase production in the ATDC-5 cell line (Mouse chondrogenic cell line).
- Reconstitution:** Briefly centrifuge the vial before opening. It is recommended to reconstitute the protein in sterile PBS containing 0.1% endotoxin-free recombinant human serum albumin.
- Stability & Storage:** Use a manual defrost freezer and avoid repeated freeze-thaw cycles. In general: 12 months from date of receipt, -20 to -80°C as supplied. 1 month, 2 to 8°C under sterile conditions after reconstitution. 3 months, -20 to -80 °C under sterile conditions after reconstitution.
- Description:** Bone morphogenetic protein 2 (BMP-2) is a member of transforming growth factor β family that includes more than 20 structurally related bone growth factors. BMP-2 is expressed abundant in lung, spleen and colon and in low but significant levels in heart, brain, placenta, liver, skeletal muscle, kidney, pancreas, prostate, ovary and small intestine. BMP-2 plays an important role in inducing bone and cartilage formation. Mature human BMP-2 is usually a homodimer consisting of two monomers of 114 amino acids. Dimerization is facilitated by a disulfide bridge formed between the monomer, which contains three intrachain disulfide bridges arranged in a cystine knot motif.

***Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.***