

## 32-7011: Recombinant Human Bone Morphogenetic Protein 2/BMP-2

**Gene :** BMP2  
**Gene ID :** 650  
**Uniprot ID :** P12643

### Description

Source: E.coli.  
MW :13.3kD.

Recombinant Human Bone Morphogenetic Protein 2 is produced by our E.coli expression system and the target gene encoding Gln283-Arg396 is expressed. Bone Morphogenetic Protein-2 (BMP-2) is one of the bone-growth regulatory factors that belong to the transforming growth factor-beta (TGF-beta) superfamily of proteins. BMPs are synthesized as large precursor molecules, which are cleaved by proteolytic enzymes. The active form of BMP-2 can consist of a dimer of two identical proteins or a heterodimer of two related bone morphogenetic proteins.

### Product Info

**Amount :** 10 µg / 50 µg  
**Content :** Lyophilized from a 0.2 µm filtered solution of 50mM HAc .  
**Storage condition :** Lyophilized protein should be stored at -20°C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7°C for 2-7 days. Aliquots of reconstituted samples are stable at -20°C for 3 months.  
**Amino Acid :** MQAKHKQRKRLKSSCKRHPLYVDFSDVGWWDWIVAPPGYHAFYCHGECPPFLADHLNSTNHAIVQTLVNSVN  
SKIPKACCVPTELSAISMLYLDENEKVVVKNYQDMVVEGCGCR

### Application Note

Always centrifuge tubes before opening. Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than 100 µg/ml. Dissolve the lyophilized protein in 50mM Acetic acid. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

**Endotoxin :** Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test.

**Biological Activity :** ED50 is less than 50 ng/ml. Specific Activity of 2.0 x 10<sup>4</sup> IU/mg