



# Recombinant Rat Bone morphogenetic protein 2 (Bmp2)

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|--------------------------|---|
| <b>Product Code</b>      | CSB-EP002736RA-B  |
| <b>Storage</b>           | Store at -20°C, for extended storage, conserve at -20°C or -80°C.   |
| <b>Uniprot No.</b>       | P49001  |
| <b>Product Type</b>      | Recombinant Protein   |
| <b>Immunogen Species</b> | Rattus norvegicus (Rat)   |
| <b>Purity</b>            | >85% (SDS-PAGE)   |
| <b>Sequence</b>          | Q AKHKQRKRLK SSCKRHPLYV DFSDVGWNDW IVAPPGYHAF<br>YCHGECPFPL ADHLNSTNHA IVQTLVNSVN SKIPKACCVP TELSAISMLY<br>LDENEKVVVK NYQDMVVEGC GCR  |
| <b>Source</b>            | E.coli  |
| <b>Target Names</b>      | Bmp2  |
| <b>Protein Names</b>     | Recommended name: Bone morphogenetic protein 2 Short name= BMP-2<br>Alternative name(s): Bone morphogenetic protein 2A Short name= BMP-2A   |
| <b>Expression Region</b> | 280-393   |
| <b>Notes</b>             | Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.   |
| <b>Tag Info</b>          | Tag type will be determined during the manufacturing process.   |
| <b>Protein Length</b>    | Full Length of Mature Protein   |
| <b>Target Details</b>    | This protein belongs to the transforming growth factor-beta (TGFB) superfamily. The encoded protein acts as a disulfide-linked homodimer and induces bone and cartilage formation.  |
| <b>Reconstitution</b>    | We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference. |
| <b>Shelf Life</b>        | The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.   |