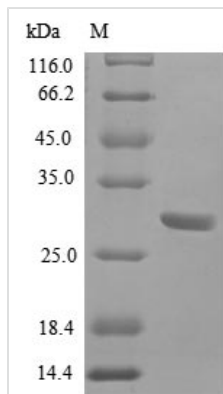




# Recombinant Human Bone morphogenetic protein 2 (BMP2)

<b>Product Code</b>	CSB-EP002736HUa2
<b>Relevance</b>	Induces cartilage and bone formation.
<b>Abbreviation</b>	Recombinant Human BMP2 protein
<b>Storage</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.
<b>Uniprot No.</b>	P12643
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Homo sapiens (Human)
<b>Purity</b>	Greater than 85% as determined by SDS-PAGE.
<b>Sequence</b>	QAKHKQRKRLKSSCKRHPLYVDFSDVGWNDWIVAPPGYHAFYCHGECPFPL ADHLNSTNHAIVQTLVNSVNSKIPKACCVPTLSAISMLYLDENEKVVVLKKNYQD MVVEGCGCR
<b>Research Area</b>	Developmental Biology
<b>Source</b>	E.coli
<b>Target Names</b>	BMP2
<b>Protein Names</b>	Bone morphogenetic protein 2A ;BMP-2A
<b>Expression Region</b>	283-396aa
<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>	N-terminal 6xHis-SUMO-tagged
<b>Mol. Weight</b>	28.9 kDa
<b>Protein Length</b>	Full Length of Mature Protein

## Image



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.



## Description

Discover the essential role of Bone Morphogenetic Protein 2 (BMP2) in developmental biology with our premium Recombinant Human BMP2 protein. BMP2, a member of the transforming growth factor-beta (TGF- $\beta$ ) superfamily, plays a vital role in the regulation of cellular growth, differentiation, and extracellular matrix production. As a key signaling molecule in processes such as bone formation, cell differentiation, and embryonic development, BMP2 is a critical target for researchers aiming to unravel the complex mechanisms underpinning developmental biology.

Our Recombinant Human BMP2 protein is expressed in *E. coli*, ensuring a consistent and reliable product for your research needs. The full length of the mature protein, covering the region from 283-396aa, is provided to preserve its biological activity. An N-terminal 6xHis-SUMO tag has been added to our recombinant BMP2 to facilitate seamless protein purification and detection. With a purity greater than 85% as determined by SDS-PAGE, our Recombinant Human BMP2 protein is supplied as a lyophilized powder, providing you with a dependable and effective tool for your developmental biology research endeavors.

## Reconstitution

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.

## Shelf Life

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.