

## Bone Morphogenetic Protein 2 Recombinant Protein | BMP2 recombinant protein

Recombinant Bone Morphogenetic Protein 2 (BMP2)

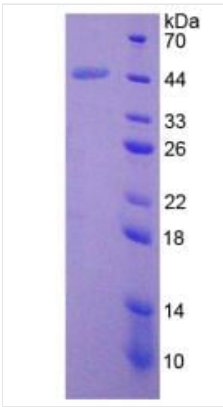
|                               |                                                           |                                                                           |
|-------------------------------|-----------------------------------------------------------|---------------------------------------------------------------------------|
| CATALOG #<br><b>AAA144279</b> | HOST<br><b>Host: E ColiSource: Prokaryotic expression</b> | APPLICATIONS<br><b>Immunoprecipitation, ELISA, Western Blot, SDS-Page</b> |
|-------------------------------|-----------------------------------------------------------|---------------------------------------------------------------------------|

### PRODUCT SYNONYMS

Bone Morphogenetic Protein 2; Recombinant Bone Morphogenetic Protein 2 (BMP2); BMP2 recombinant protein

### PRODUCT SPECIFICATIONS

|                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                                 | Host: E Coli<br>Source: Prokaryotic expression                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Purity/Purification                                  | >95%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Form/Format                                          | Supplied as lyophilized form in 20mM Tris, 500mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% sarcosyl, 5% trehalose, and preservative                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Concentration                                        | 9.2 (varies by lot)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Sequence                                             | Thetargetp roteinisfu sedwithtwo N-terminal Tags,His-t agandT7-ta g,itsseque nceisliste dbelow.<br>MGSSHHHH HHSSGLVPRG SHMASMTGGQ QMGRGSEF-L VPELGRRKFA AASSGRPSSQ PSDEVLSEFE<br>LRLLSMFGK QRP TSPSRDAV VPPYMLDLYR RHSGQPGSPA PDHRLERAAS RANTVRSFHH EESLEELPET<br>SGKTTRRRFF NLSSIPTEEF ITSAELQVFR EQMQDALGNN SSFHHRINIY EIIKPATANS KFPVTRLLDT<br>RLVNQNASRW ESFDVTPAVM RWT AQGHANH GFVVEVAHLE EKQGVSKRHV RISRSLHQDE HSWSQIRPLL<br>VTFGHDGKGH PLHKREKRQA KHKQRKRLKS SCKRHPLYVD FSDVGWNDWI VAPPGYHAFY CHGECPFPLA<br>DHLNSTNHAI VQTLVNSVNS KIPKACCVPT ELSAISMLYL DENEKVVLKN YQDMVVEGCG CR |
| Sequence Length                                      | 396                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Applicable Applications for BMP2 recombinant protein | IP (Immunoprecipitation), ELISA, WB (Western Blot), SDS-PAGE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Predicted Molecular Mass                             | 46.3kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Accurate Molecular Mass (KD)                         | 44kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Endotoxin                                            | <1.0EU per 1ug (determined by the LAL method)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Expression System                                    | Prokaryotic expression                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Tag                                                  | two N-terminal Tags, His-tag and T7-tag                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Organism Species                                     | Homo sapiens (Human)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Fragment                                             | Leu24~Arg396                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Usage                                                | Reconstitute in sterile PBS, pH7.2-pH7.4.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Preparation and Storage                              | Storage: Avoid repeated freeze/thaw cycles. Store at 2-8 degree C for one month. Aliquot and store at -80 degree C for 12 months.<br>Stability Test: The thermal stability is described by the loss rate of the targetprotein. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 degree C for 48h, and no obvious degradation andprecipitation were observed. The loss of this protein is less than 5% within the expiration date under appropriate storage condition.                                                          |



Sequence

|            |            |            |            |
|------------|------------|------------|------------|
|            | LVPELGR    | RKFAAASSGR | PSSQPSDEVL |
| SEFELRLISM | FGLKQRPTPS | RDAVVPYML  | DLYRRHSGQP |
| RAASRANTVR | SFHHEESLEE | LPETSGKTTR | RFFFNLSIP  |
| QVFEQMQDA  | LGNSSFHHR  | INIYEIKPA  | TANSKFPVTR |
| ASRWESFDVT | PAVMRWTAQG | HANHGFFVEV | AHLEEKQGV  |
| HQDEHSWSQI | RPLLVTFGHD | GKGHPLHKRE | KRQAKHKQRK |
| LYVDFSDVGW | NDWIVAPPGY | HAFYCHGEC  | FPLADHLNST |
| SVNSKIPKAC | CVPTELSAIS | MLYLDENEKV | VLKNYQDMV  |
|            |            |            | EGCGCR     |

SDS-PAGE

NCBI AND UNIPROT INFORMATION

|                                  |                                            |
|----------------------------------|--------------------------------------------|
| NCBI GI #                        | 4557369                                    |
| NCBI GeneID                      | 650                                        |
| NCBI Accession #                 | NP_001191.1                                |
| NCBI GenBank Nucleotide #        | NM_001200.2                                |
| Molecular Weight                 | 44,702 Da                                  |
| NCBI Official Full Name          | bone morphogenetic protein 2 preproprotein |
| NCBI Official Synonym Full Names | bone morphogenetic protein 2               |
| NCBI Official Symbol             | BMP2                                       |
| NCBI Official Synonym Symbols    | BDA2; BMP2A                                |
| NCBI Protein Information         | bone morphogenetic protein 2               |
| UniProt Protein Name             | Bone morphogenetic protein 2               |
| UniProt Gene Name                | BMP2                                       |
| UniProt Synonym Gene Names       | BMP2A; BMP-2; BMP-2A                       |
| UniProt Entry Name               | BMP2_HUMAN                                 |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.