

Bone Morphogenetic Protein 1 (BMP1) Recombinant Protein | BMP1 recombinant protein

Recombinant Bone Morphogenetic Protein 1 (BMP1)

CATALOG # AAA133909	HOST E.coli	REACTIVITY Mus musculus (Mouse)	APPLICATIONS Western Blot, SDS-Page
-------------------------------	-----------------------	---	---

PRODUCT SYNONYMS

Bone Morphogenetic Protein 1 (BMP1); Recombinant Bone Morphogenetic Protein 1 (BMP1); BMP1 recombinant protein

PRODUCT SPECIFICATIONS

Host	E.coli
Reactivity	Mus musculus (Mouse)
Purity/Purification	> 97%
Form/Format	20mM Tris, 150mM NaCl, pH8.0, containing 0.01% skl, 5%Trehalose.
Concentration	Original Concentration: 150ug/mL (varies by lot)
Sequence	GFQASHSTEC GGQVRADVKT KDLYSHAQFG DNNYPGGVDC EWWIVAEEGY GVELVFQTFE VEEETDCGYD YIELFDGYDS TAPRLGRYCG SGPPEEVYSA GDSVLVKFHS DDTISKKGFFH LRYTSTK
Applicable Applications for BMP1 recombinant protein	WB (Western Blot), SDS-PAGE, Immunogen, Positive Control
Source	Prokaryotic expression
Residues	Gly856~Lys982
Tags	N-terminal His Tag
Subcellular Location	Extracellular matrix
Traits	Freeze-dried powder
Predicted isoelectric point	4.9
Phenomenon explanation	The possible reasons that the actual band size differs from the predicted are as follows: 1. Splice variants: Alternative splicing may create different sized proteins from the same gene. 2. Relative charge: The composition of amino acids may affects the charge of the protein. 3. Post-translational modification: Phosphorylation, glycosylation, methylation etc. 4. Post-translation cleavage: Many proteins are synthesized as pro-proteins, and then cleaved to give the active form. 5. Polymerization of the target protein: Dimerization, multimerization etc.
Usage	Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex.
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. Stability Test: The thermal stability is described by the loss rate. 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 and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.



SDS-PAGE

NCBI AND UNIPROT INFORMATION

NCBI GI #	42734447
NCBI GeneID	12153
NCBI Accession #	NP_033885.2
NCBI GenBank Nucleotide #	NM_009755.3
UniProt Accession #	P98063; Q6NZM2
Molecular Weight	Predicted Molecular Mass: 15.3kDa Accurate Molecular Mass: 22/23kDa as determined by SDS-PAGE reducing conditions.
NCBI Official Full Name	bone morphogenetic protein 1
NCBI Official Synonym Full Names	bone morphogenetic protein 1
NCBI Official Symbol	Bmp1
NCBI Official Synonym Symbols	Pcp; Tld
NCBI Protein Information	bone morphogenetic protein 1; procollagen C-proteinase; mammalian tolloid protein
UniProt Protein Name	Bone morphogenetic protein 1
UniProt Gene Name	Bmp1
UniProt Synonym Gene Names	BMP-1; mTld; PCP
UniProt Entry Name	BMP1_MOUSE

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.