Recombinant BMP8B protein (His tag)

Catalog Number	549729
Synonyms	BMP-8; BMP-8B; Osteogenic protein 2; OP-2
Species	Human
Expression System	E. coli
Accession	P34820
Molecular Weight	Predictes a molecular mass of 13.34 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 13 kDa band.

Product Information

Sequence Region	299-402
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>89%, by SDS-PAGE with Coomassie Brilliant Blue staining.
Endotoxin	Not tested.
Activity	Not tested.
Stability	Samples are stable for up to twelve months from date of receipt at -70℃
Protein Construction	DNA encoding 299-402 aa (P34820) were fused with 6His tag.

Storage & Handling

Reconstitution	Reconstitute at 0.25 μg/μl in sterile water for short-term storage. Reconstitution with 50% glycerol solution is recommended for longer term storage (see Stability and Storage for more details). If a different concentration is needed for your purposes please adjust the reconstitution volume as required (please note: the ion concentration of the final solution will vary according to the volume used). Note: Centrifuge vial before opening. When reconstituting, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution.
Storage	Store it under sterile conditions at -20℃ to -80℃. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Shipping	In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature. Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice unless customers require otherwise.

Description

Description	Recombinant Bone Morphogenetic Protein 8B (BMP-8B) Fragment (residues 299-402) is a highly stable and soluble protein unit designed for structural and biochemical studies. This human-derived fragment supports research in bone and cartilage formation, offering a reliable tool for investigating osteogenic pathways. Bone Morphogenetic Protein 8B (BMP-8B), also known as Osteogenic Protein 2 (OP-2), is a secreted human protein that plays a critical role in inducing cartilage and bone formation. It functions as an osteoinductive factor, potentially driving epithelial osteogenesis, and contributes to calcium regulation and bone homeostasis. The protein is naturally secreted, facilitating its involvement in extracellular signaling processes related to skeletal development and maintenance.