

BMP-6 Protein, Human, Recombinant (His)

General Information

Synonyms:	BMP-6; Bone morphogenetic protein 6; VG-1-related protein (VG-1-R; VGR-1); VGR; BMP6
Protein Construction:	382-513 aa
Species:	Human
Expression Host:	E. coli
Accession:	P22004
Molecular Weight:	18.9 kDa (predicted)
AA Sequence:	QQSRNRSTQSQDVARVSSASDYNSSELKTACRKHELYVSFQDLGWQDWIIAPKGYAANYCDGECSPFLNAH MNATNHAI VQTLVHLMNPEYVPKCCAPTCLNLAISVLYFDDNSNVILKKYRNMVVRACGCH

QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 90% as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Tris-based buffer, 50% glycerol

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100 μg/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

Growth factor of the TGF-beta superfamily that plays essential roles in many developmental processes including cartilage and bone formation. Plays also an important role in the regulation of iron metabolism by acting as a ligand for hemojuvelin/HJV. Initiates the canonical BMP signaling cascade by associating with type I receptor ACVR1 and type II receptor ACVR2B. In turn, ACVR1 propagates signal by phosphorylating SMAD1/5/8 that travel to the nucleus and act as activators and repressors of transcription of target. Can also signal through non-canonical

pathway such as TAZ-Hippo signaling cascade to modulate VEGF signaling by regulating VEGFR2 expression.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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