

Recombinant Human BMP6 / Bone Morphogenetic Protein 6, Animal Free & Carrier Free

Cat #: C-CYP253

Size: 5µg, 20µg, 100µg, 500µg, 1mg

Shipping: Blue Ice

Product Overview

Bone morphogenetic protein 6 is a member of the TGFβ superfamily. BMP6 is able to induce all osteogenic markers in mesenchymal stem cells. The bone morphogenetic proteins (BMPs) are a family of secreted signaling molecules that can induce ectopic bone growth. BMPs are part of the transforming growth factor-beta (TGFB) superfamily. BMPs were originally identified by an ability of demineralized bone extract to induce endochondral osteogenesis in vivo in an extraskkeletal site.

Product Information

Source: *Escherichia Coli*.

Purity: >98% as determined by SDS-PAGE. Ni-NTA chromatography.

Biological Activity: Measure by its ability to induce alkaline phosphatase production by ATDC5 cells. The ED₅₀ for this effect is < 87 ng/mL.

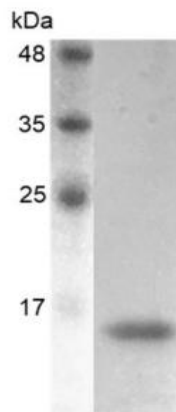
Endotoxin: <0.1EU per 1µg of the protein by the LAL method.

Amino acid sequence:

MVSSASDYNSSSELKTACRKHELYVSFQDLGWQDWIIPKGYAANYCDGECFPLNAHMNATNHAIVQTLVHLMNPEYVPKPCCAPTKLN

AISVLYFDDNSNVILKKYRNMVVRACGCH with polyhistidine tag at the C-terminus.

Formulation: Lyophilized from a sterile filtered aqueous solution in 1X PBS, pH 8.0



SDS-PAGE analysis of recombinant human BMP6

Usage Method

1. Before opening, it is recommended to centrifuge at 3000-3500 rpm for 5 minutes.
2. Reconstitute to a concentration of 0.1-1.0 mg/mL in sterile distilled H₂O. Allow the solution to sit at room temperature for at least 20 minutes to ensure complete dissolution. Avoid vigorous vortexing.
3. The reconstituted solution can be stored at 2-8°C for up to 1 week.
4. For long-term storage, it is recommended to further dilute the solution with a carrier protein (such as 0.1% BSA, 10% FBS, or 5% HSA) to a concentration of no less than 10 µg/mL and aliquot for storage at -20°C to -80°C for 3 to 6 months. If serum-free experiments are required, a 5% trehalose solution can be used as a carrier instead. Avoid repeated freeze-thaw cycles.

Storage

Physical Appearance	Storage	Stability
Lyophilized powder	-20°C to -80°C	1 year
Reconstitution (initial)	2°C to 8°C	Less than 1 week
Reconstitution (after dilution)	-20°C to -80°C	3 to 6 months

Note

The reagent is only used in the field of scientific research, not suitable for clinical diagnosis or other purposes.