

Recombinant Human BMP8b / Bone Morphogenetic Protein 8b, Animal Free & Carrier Free

Cat #: C-CYP259

Size: 5µg, 20µg, 100µg, 500µg, 1mg

Shipping: Blue Ice

Product Overview

Bone morphogenetic protein 8B is a protein that in humans is encoded by the BMP8B gene. The protein encoded by this gene is a member of the TGF-β superfamily. It has close sequence homology to BMP7 and BMP5 and is believed to play a role in bone and cartilage development. BMP-8b, in contrast, is required for both the initiation and maintenance of spermatogenesis

Product Information

Source: *Escherichia Coli*.

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

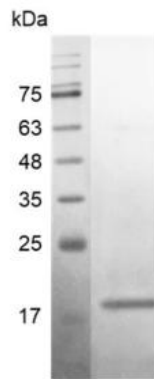
Biological Activity: Measure by its ability to induce alkaline phosphatase production by ATDC5 cells. The ED₅₀ for this effect is < 21.8 ng/mL.

Endotoxin: <0.01EU per 1µg of the protein by the LAL method.

Amino acid sequence:

AVRPLRRRQPKKSNELPQANRLPGIFDDVHGSHGRQVCRRHELYVSFQDLGWLDWVIA PQGYSA YCEGEC SFPLDSCMNATNHAILQSL
VHLMMPDAVPKACCAPT KLSATSVLYDSSNNVILRKHRNMVVKACGCH with polyhistidine tag at the N-terminus.

Formulation: Lyophilized from a sterile filtered aqueous solution in 20 mM sodium citrate, 0.2 M NaCl, pH 3.5



SDS-PAGE analysis of recombinant human BMP8b

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.