

Recombinant Human BMP10 / Bone Morphogenetic Protein 10,

Animal Free & Carrier Free

Cat #: C-CYP263 Size: 5µg, 20µg, 100µg, 500µg, 1mg Shipping: Blue Ice

Product Overview

BMP-10 is a polypeptide belonging to the TGF- β superfamily of proteins. It is a novel protein that, unlike most other BMP's, is likely to be involved in the trabeculation of the heart. BMP -10 is categorized as a BMP since it shares large sequence homology with other BMP's in the TGF- β superfamily.

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 1.7-2.1 ng/mL.

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

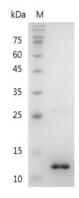
Amino acid sequence:

MNAKGNYCKRTPLYIDFKEIGWDSWIIAPPGYEAYECRGVCNYPLAEHLTPTKHAIIQALVHLKNSQKASKACCVPTKLEPISILYLDKGVVTY KFKYEGMAVSECGCR with polyhistidine tag at the C-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 BMP10

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 H_2O . 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 μ g/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.

