

Recombinant Human BMP15 / Bone Morphogenetic Protein 15, Animal Free & Carrier Free

Cat #: C-CYP273

Size: 5µg, 20µg, 100µg, 500µg, 1mg

Shipping: Blue Ice

Product Overview

Bone morphogenetic protein 15 is a protein, that in humans, is encoded by the BMP15 gene. It's mainly involved in folliculogenesis . The protein encoded by this gene is a member of the TGF-β superfamily. It is a paracrine signaling molecule involved in oocyte and follicular development. Using Northern blot analysis, BMP15 has been shown to be exclusively expressed in the ovaries. This protein may be involved in oocyte maturation and follicular development as a homodimer or by forming heterodimers with a related protein, Gdf9.

Product Information

Source: *Escherichia Coli*.

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

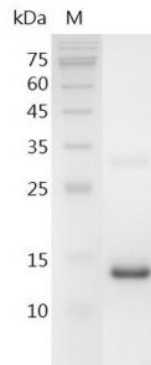
Biological Activity: Measure by its ability to induce alkaline phosphatase production by ATDC5 cells. The ED₅₀ for this effect is < 17 ng/mL.

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

Amino acid sequence:

MQADGISA EVTASSSKHSGPENNQCSLHPFQISFRQLGWDHWIAPPFYTPNYCKGTCLRVL RDGLNSPNHAIQNLINQLVDQSVP RPSC
VPYKYVPISVLMIEANGSILYKEYEGMIAESCTCR 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 BMP15

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.