

Version : 04  
Update : 05/08/2023

## CERTIFICATE OF ANALYSIS

### Product Information

Product Name	BMP-2, Human
Cat. No.	Z02913
Lot No.	E2312005
Size:	Specified on product label
Formulation:	Lyophilized after extensive dialysis against 50 mM acetic acid.
Reconstitution:	It is recommended that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute the lyophilized powder in 20 mM AcOH or 5 mM HCl up to 100 µg/ml.
Stability & Storage:	Upon receiving, this product remains stable for up to 6 months at lower than -70°C. Upon reconstitution, the product should be stable for up to 1 week at 4°C or up to 3 months at -20°C. For long term storage it is recommended that a carrier protein (example 0.1% BSA) be added. Avoid repeated freeze-thaw cycles.

### Quality Control

Test Items	Specifications	Results
Appearance	White Freeze-dried Powder	Pass
Purity	> 95% as analyzed by SDS-PAGE > 95% as analyzed by HPLC	Pass
Endotoxin Level	< 1 EU/µg of protein by gel clotting method	Pass
Biological Activity	Assay #1: Measured by its ability to induce alkaline phosphatase production by ATDC-5 Cells. The ED <sub>50</sub> for this effect is typically 0.07-0.2 µg/ml. Assay #2: Measured by its ability to induce alkaline phosphatase production by C2C12 cells. The ED <sub>50</sub> for this effect is typically 0.2-1 µg/ml.	Pass

Date: 01/23/2024

Approved by: *Dandan Yao*

Quality Department

**For research use only. Not intended for human and animal therapeutic or diagnostic use.**

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