

Product Information Sheet

Recombinant Human BMP-4

Animal-Free manufactured

Catalog# AF-120-05ET

Source: *E.coli*

Description: Bone morphogenetic proteins (BMPs) constitute a subfamily within the TGF- β superfamily of structurally related signaling proteins. Members of this superfamily are widely distributed throughout the body and are involved in diverse physiological processes during both pre- and postnatal life. Like BMP-7, BMP-4 is involved in the development and maintenance of bone and cartilage. Reduced expression of BMP-4 is associated with a number of bone diseases, including the heritable disorder Fibrodysplasia Ossificans Progressiva. PeproTech's *E.coli* derived BMP-4 is a fully active homodimeric protein consisting of two 106 amino acid subunits which correspond to amino acids 303-408 of the full length BMP-4 precursor.

Synonyms: BMP-2B, DVR4

Sequence: KKNKNCRRHS LYVDFSDVGW NDWIVAPPGY QAFYCHGDCP FPLADHLNST NHAIVQTLVN SVNSSIPKAC CVPTLSAIS
MLYLDEYDKV VLKNYQEMVV EGCGR

Authenticity: Verified by N-terminal and Mass Spectrometry analyses (when applicable).

Purity: $\geq 98\%$ by SDS-PAGE gel and HPLC analyses.

Endotoxin: Endotoxin level is < 0.1 ng/ μ g of protein (< 1 EU/ μ g).

Protein Content: Verified by UV Spectroscopy and/or SDS-PAGE gel.

Biological activity: Determined by its ability to induce alkaline phosphatase production by ATDC-5 cells. The expected ED₅₀ for this effect is 5-10 ng/ml.

For a list of references please visit our website at www.peprotech.com

Country of Origin: USA

Lot-specific information is not available on Product Information Sheet.
See Certificate of Analysis for details.

Usage: For Research Use Only. Not for use in diagnostic or therapeutic procedures.

Updated 09/30/2012

Storage/Stability:

| Product Form | Temperature | Storage Time |
|--------------------------------------|----------------|---------------------|
| Lyophilized | -20°C to -80°C | See expiration date |
| Lyophilized | 4°C | 6 months |
| Lyophilized | RT | 1 month |
| Diluted as per CoA | -20°C to -80°C | 12 months |
| Diluted as per CoA | 2°C to 8°C | 1 week |
| **Avoid repeated freeze-thaw cycles. | | |