

## Datasheet: PHP246

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|----------------------|-------------------------|
| <b>Description:</b>  | RECOMBINANT HUMAN BMP-3 |
| <b>Name:</b>         | BMP-3                   |
| <b>Other names:</b>  | OSTEOGENIN              |
| <b>Format:</b>       | Rec. Protein            |
| <b>Product Type:</b> | Recombinant Protein     |
| <b>Quantity:</b>     | 50 µg                   |

## Product Details

### Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit [www.abdserotec.com/protocols](http://www.abdserotec.com/protocols).

|                   | Yes | No | Not Determined | Suggested Dilution |
|-------------------|-----|----|----------------|--------------------|
| Functional Assays | ■   |    |                |                    |

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using appropriate negative/positive controls.

|                                       |   |
|---------------------------------------|---|
| <b>Target Species</b>                 | Human   |
| <b>Product Form</b>                   | Purified recombinant protein - lyophilised  |
| <b>Reconstitution</b>                 | Reconstitute with 500ul distilled water<br>Care should be taken during reconstitution as the protein may appear as a film at the bottom of the vial. AbD Serotec recommend that the vial is gently mixed after reconstitution.  |
| <b>Preparation</b>                    | Purified recombinant BMP-3 expressed in <i>E.coli</i>   |
| <b>Buffer Solution</b>                | 0.1% Trifluoroacetic acid   |
| <b>Preservative Stabilisers</b>       | None present  |
| <b>Endotoxin Level</b>                | <1EU/ug   |
| <b>Approx. Protein Concentrations</b> | 0.1mg/ml after reconstitution   |
| <b>External Database Links</b>        | <p><b>UniProt:</b><br/> <a href="#">P12645</a> BMP3_HUMAN <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b><br/> <a href="#">651</a> BMP3 <a href="#">Related reagents</a></p>  |
| <b>Synonyms</b>                       | BMP3A   |
| <b>Product Information</b>            | Bone morphogenetic protein 3 (BMP-3), otherwise known as Osteogenin, is highly expressed in adult bone, especially chondroblasts, osteoblasts and osteoclasts, and, like other BMPs, induces bone and cartilage development. BMP-3 acts as an inhibitor of osteogenesis and bone formation, through the activation of a signalling cascade, which antagonizes pro-osteogenic BMP signalling. PHP246 corresponds to residues 361 to 472 of the 472 amino acid BMP-3 precursor protein. |

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|--------------------------------------|---|
| <b>Activity</b>                      | Determined by its ability to inhibit BMP-2-induced alkaline phosphatase production by ATDC-5 cells.   |
| <b>Purity</b>                        | >95% by SDS PAGE and HPLC analysis  |
| <b>Storage</b>                       | Prior to reconstitution store at +4°C.<br>After reconstitution store at -20°C.<br>Storage in frost-free freezers is not recommended. This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use. |
| <b>Shelf Life</b>                    | 3 months from date of reconstitution.   |
| <b>Health And Safety Information</b> | Material Safety Datasheet Documentation #10307 available at:<br><a href="http://www.abdserotec.com/uploads/MSDS/10307.pdf">http://www.abdserotec.com/uploads/MSDS/10307.pdf</a>   |
| <b>Regulatory</b>                    | For research purposes only  |

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