

Datasheet: PHP168

Description:	RECOMBINANT HUMAN BMP-7
Name:	BMP-7
Other names:	OP-1
Format:	Rec. Protein
Product Type:	Recombinant Protein
Quantity:	10 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.

	Yes	No	Not Determined	Suggested Dilution
ELISA	■			0.2 - 0.4ng/well
Western Blotting	■			1.5 - 3.0ng/lane
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.

Target Species	Human
Product Form	Purified recombinant protein - lyophilised
Reconstitution	Reconstitute with 0.1ml distilled water. 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.
Preparation	Purified recombinant BMP-7 expressed in CHO cells.
Buffer Solution	Lyophilised from 0.1% TFA
Preservative Stabilisers	None present
Endotoxin Level	<1EU/ug
Approx. Protein Concentrations	Total protein concentration 0.1mg/ml after reconstitution.
External Database Links	UniProt: P18075 BMP7_HUMAN Related reagents Entrez Gene: 655 BMP7 Related reagents
Synonyms	OP1
Product Information	PHP168 is a 28.8 kDa recombinant protein corresponding to amino acid residues 316 to 431 of the full-length human bone morphogenetic protein 7 (BMP-7) precursor.

BMP-7, also known as Osteogenic protein 1 (OP-1), is a disulphide-linked homodimeric cysteine knot protein and one of a growing number of osteogenic proteins shown to induce bone and cartilage formation and to play an important role in developmental processes, including cell proliferation, differentiation, apoptosis and morphogenesis.

Activity	Determined by its ability to induce alkaline phosphatase production by ATDC-5 cells. The expected ED ₅₀ for this effect is 0.02-0.04 ug/ml.
Purity	>98% by SDS PAGE/HPLC analysis
ELISA	PHP168 may be used as a standard in a sandwich ELISA with AHP961 as the capture reagent and AHP961B as the detection antibody.
Western Blotting	PHP168 may be used as a positive control for Western blotting applications with AHP961 or AHP961B .
Storage	Prior to reconstitution store at +4°C. After reconstitution store at -20°C. Storage in frost-free freezers is not recommended. Avoid repeated freezing and thawing as this may denature the protein. Should this product contain a precipitate we recommend microcentrifugation before use.
Shelf Life	3 months from date of reconstitution.
Health And Safety Information	Material Safety Datasheet documentation #10307 available at http://www.abdserotec.com/uploads/MSDS/10307.pdf
Regulatory	For research purposes only

Related Products

Recommended Useful Reagents

[RABBIT ANTI HUMAN BMP-7:Biotin \(AHP961B\)](#)

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