

## Datasheet: PHP248

<b>Description:</b>	RECOMBINANT HUMAN BMP-13
<b>Name:</b>	BMP-13
<b>Other names:</b>	GROWTH DIFFERENTIATION FACTOR 6
<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 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-13 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>  <a href="#">Q6KF10</a> GDF6_HUMAN <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b>  <a href="#">392255</a> GDF6 <a href="#">Related reagents</a></p>
<b>Synonyms</b>	GDF16

**Product Information** Bone morphogenetic protein 13 (BMP-13), otherwise known as growth differentiation factor 6 (GDF6), is expressed in hypertrophic chondrocytes during embryonic development of long bones, and implicated as a regulator of the growth and maintenance of articular cartilage. BMP-13 is also expressed at the boundaries of developing carpals, tarsals, and vertebrae, and mutations in the BMP-13 gene, have been identified in both familial and sporadic cases of Klippel-Feil syndrome (KFS), a congenital disorder of spinal segmentation. Functional BMP-13 is a disulfide-linked

homodimer consisting of two 120 amino acid polypeptide chains, derived by proteolytic processing of a biologically inactive precursor protein.

---

<b>Molecular Weight</b>	27.0kD (120 amino acid residue homodimer)
<b>Activity</b>	The ED <sub>50</sub> was determined by its ability to induce alkaline phosphatase production by ATDC-5 chondrogenic cells in the range of 2.0-3.0 µg/ml.
<b>Purity</b>	>95% by SDS PAGE and HPLC analysis
<b>Storage</b>	Prior to reconstitution store at +4°C. After reconstitution store at -20°C. 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: <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

---

**North & South America** Tel: +1 800 265 7376      **Worldwide**  
Fax: +1 919 878 3751  
Email: [sales.us@abdserotec.com](mailto:sales.us@abdserotec.com)

Tel: +44 1865 852 700      **Europe**  
Fax: +44 1865 852 739  
Email: [sales@abdserotec.com](mailto:sales@abdserotec.com)

Tel: 00800 2255 4223  
Fax: 00800 2329 2223  
Email: [sales.eu@abdserotec.com](mailto:sales.eu@abdserotec.com)

'M229812:130108'

**Printed on 31 May 2013**