Datasheet: PHP247

Description:	RECOMBINANT HUMAN BMP-9
Name:	BMP-9
Other names:	GROWTH DIFFERENTIATION FACTOR 2
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
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. For extended storage, the addition of 0.1% bovine serum albumin (BSA) is recommended.

Preparation

Purified recombinant BMP-9 expressed in CHO cells

Preservative Stabilisers

None present

Endotoxin Level

<1EU/ug

Approx. Protein Concentrations

0.1mg/ml after reconstitution

External Database Links

UniProt:
Q9UK05 GDF2_HUMAN Related reagents

Entrez Gene:
2658 GDF2 Related reagents

Synonyms

BMP9

Product Information

Bone morphogenetic protein 9 (BMP-9), otherwise known as growth differentiation factor-2 (GDF-2), plays a role in the response of embryonic basal forebrain cholinergic neurons (BFCN) to the neurotransmitter acetylcholine, and hence in memory and learning processes. BMP-9 is predominantly expressed in liver nonparenchymal cells, and has several biological properties, including induction of orthotopic bone formation, glucose homeostasis, iron homeostasis, and in the inhibition of angiogenesis.

Molecular Weight	24.1kD (110 amino acid residue homodimer)
Activity	Determined by its ability to induce alkaline phosphatase production by ATDC-5 cells. The expected ED50 for this effect is 0.5-1.9 ng/ml.
Purity	>95% by SDS PAGE and HPLC analysis
Storage	Prior to reconstitution store at +4^{o}C. After reconstitution store at -20^{o}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.
Shelf Life	3 months from date of reconstitution.
Health And Safety Information	Material Safety Datasheet Documentation #10527 available at: http://www.abdserotec.com/uploads/MSDS/10527.pdf
Regulatory	For research purposes only

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