Human BMP-4 Recombinant Protein, PeproTech®

Product Details	
Size	5 µg
Species	Human
Published Species	Avian, Pig, Rat, Bovine, Human, Mouse, Rhesus monkey
Expression system	HeLa cells
Amino acid sequence	HHSQRARKKN KNCRRHSLYV DFSDVGWNDW IVAPPGYQAF YCHGDCPFPL ADHLNSTNHA IVQTLVNSVN SSIPKACCVP TELSAISMLY LDEYDKVVLK NYQEMVVEGC GCR
Molecular weight	25.6 kDa
Class	Recombinant
Type	Protein
Purity	97% by SDS-PAGE gel and HPLC analyses.
Endotoxin concentration	<1 EU/µg
Activity	Determined by its ability to induce alkaline phosphatase production by ATDC-5 cells. The expected ED50 for this effect is 2-8 ng/ml.
Conjugate	Unconjugated
Form	Lyophilized
Purification	purified
Contains	no preservative
Storage conditions	-20°C

Applications	**Tested Dilution**	**Publications**
Western Blot (WB)	Assay-dependent	1 Publication
ELISA (ELISA)	Assay-dependent	-
Functional Assay (Functional)	Assay-dependent	-
In vitro Assay (IV)	-	125 Publications
Miscellaneous PubMed (Misc)	-	12 Publications

Product Specific Information

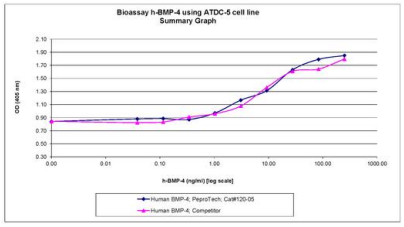
120-05-1MG will be provided as 10 x 100 µg (120-05-100UG).

120-05-500UG will be provided as 5 x 100 µg (120-05-100UG).

Recombinant Human BMP-4, expressed in HeLa cells, is a 25.6 kDa homodimeric glycoprotein.

This product is shipped at ambient temperature. For storage, handling and reconstitution information, please see the lot-specific Certificate of Analysis

Product Images For Human BMP-4 Recombinant Protein, PeproTech®



Human BMP-4 Protein (120-05-5UG) in Functional
Bioassay analysis of Human BMP-4 Recombinant Protein, PeproTech® (Product # 120-05-1MG).

138 References

Western Blot (1)

Journal of experimental & clinical cancer research : CR

BMP4 promotes hepatocellular carcinoma proliferation by autophagy activation through JNK1-mediated Bcl-2 phosphorylation.

"120-05 was used in Western Blotting to investigate the roles of BMP4 and autophagy on hepatocellular carcinoma."

Authors: Deng G,Zeng S,Qu Y,Luo Q,Guo C,Yin L,Han Y,Li Y,Cai C,Fu Y,Shen H

Year
2018

Species
Human

In vitro Assay (125)

International journal of molecular sciences

The Efficiency of In Vitro Differentiation of Primate iPSCs into Cardiomyocytes Depending on Their Cell Seeding Density and Cell Line Specificity.

"120-05 was used in In vitro experiments to show that the cell seeding density is a critical parameter for the differentiation inefficiency of primate induced pluripotent stem cells (iPSCs) to cardiomyocytes and that iPSCs generated with the same episomal approach still exhibit considerable heterogeneity."

Authors: Tereshchenko Y,Petkov SG,Behr R

Year
2024

Species
Human
Rhesus monkey

Cell reports

The HIF transcription network exerts innate antiviral activity in neurons and limits brain inflammation.

"120-05 was used in In vitro experiments to find that herpes simplex virus infection disrupts the hypoxia-inducible factor (HIF) transcription network in neurons and epithelial cells."

Authors: Farahani E,Reinert LS,Narita R,Serrero MC,Skouboe MK,van der Horst D,Assil S,Zhang B,Iversen MB, Gutierrez E,Hazrati H,Johannsen M,Olagnier D,Kunze R,Denham M,Mogensen TH,Lappe M,Paludan SR

Year
2024

Species
Human

View more IV references on thermofisher.cn

Miscellaneous PubMed (12)

Biomedicines

Quantitative Proteomics of Polarised Macrophages Derived from Induced Pluripotent Stem Cells.

"120-05 was used in Cell Culture to generate and culture embroyoid bodies (iPSCs). Polarised to either M1 or M2, the macrophages were subjected to quantitative proteomic analysis gaining further insight into their functionalities."

Authors: Murugesan G,Davidson L,Jannetti L,Crocker PR,Weigle B

Year
2022

Species
Human

View more Misc references on thermofisher.cn

More applications with references on thermofisher.cn

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