Human BMP-4 Recombinant Protein

Product Details	
Size	100 µg
Species	Human, Mouse
Published Species	Human, Mouse
Expression system	HEK293 cells
Molecular weight	34 kDa
Class	Recombinant
Type	Protein
Purity	>95% by SDS-PAGE
Endotoxin concentration	<1 EU/µg
Activity	ED50 = 2 - 10 ng/mL; determined by the dose-dependent induction of alkaline phosphatase production in ATDC-5 cells.
Conjugate	Unconjugated
Form	Lyophilized
Purification	sequential chromatography
Storage buffer	HCl
Contains	no preservative
Storage conditions	-20°C

Applications	Tested Dilution	Publications
Western Blot (WB)	Assay-dependent	-
ELISA (ELISA)	Assay-dependent	-
Functional Assay (FN)	Assay-dependent	6 Publications
Control (Ctrl)	Assay-dependent	-

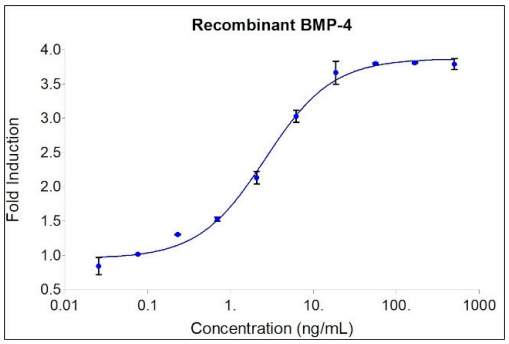
Product Specific Information

Carrier-Free

Reconstitution: We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute lyophilized recombinant human BMP-4 in 4 mM HCl containing 0.1% human serum albumin. Further dilutions should be made in low endotoxin medium or a buffered solution containing a carrier protein such as heat inactivated FCS or tissue culture grade BSA.

Storage: Store this lyophilized preparation at -20°C, preferably desiccated. Upon reconstitution, apportion into working aliquots and store at -20°C. Avoid repeated freeze/thaw cycles.

Product Images For Human BMP-4 Recombinant Protein



Human BMP-4 Protein (PHC9531) in FN
Recombinant human BMP-4 (Product # PHC9531) stimulates dose-dependent induction of alkaline phosphatase production in the ATDC-5 mouse chondrogenic cell line. Alkaline phosphatase production was assessed using pNPP as a chromogenic substrate. ATDC-5 cells were treated with increasing concentrations of recombinant human BMP-4 for 72 hrs hours before lysis and addition of pNPP. The EC50 was determined using a 4-parameter non-linear regression model. Activity determination was conducted in triplicate on a validated bioassay. The EC50 values range from 1.5-9 ng/mL.

6 References

Functional Assay (6)

STAR protocols

An Optimized Protocol for ChIP-Seq from Human Embryonic Stem Cell Cultures.

Authors: Sullivan AE,Santos SDM

Year
2020

Species
Human

Dilution
50 ng/mL

Nature communications

Targeting QKI-7 in vivo restores endothelial cell function in diabetes.

Authors: Yang C,Eleftheriadou M,Kelaini S,Morrison T,González MV,Caines R,Edwards N,Yacoub A,Edgar K,Moez A, Ivetic A,Zampetaki A,Zeng L,Wilkinson FL,Lois N,Stitt AW,Grieve DJ,Margariti A

Year
2020

Species
Human

Dilution
25 ng/mL

View more FN references on thermofisher.cn

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