

Human Noggin Recombinant Protein, PeptoTech®

Product Details

Size	5 µg
Species	Human
Published Species	Dog, Pig, Rat, Bovine, Human, Mouse, Chicken
Expression system	HEK293 cells
Amino acid sequence	QHYLHIRPAP SDNLPLVDLI EHPDPIFDPK EKDLNETLLR SLLGGHYDPG FMATSPPEDR PGGGGGAAGG AEDLAELDQL LRQRPSGAMP SEIKGLEFSE GLAQGKKQRL SKKLRRKLQM WLWSQTFPCPV LYAWNDLGSF FWPYVYKVGK CFSKRSCSVP EGMVCKPSKS VHLTVLRWRC QRRGGQRCGW IPIQYPIISE CKCSC
Molecular weight	46 kDa
Class	Recombinant
Type	Protein
Purity	95% by SDS-PAGE gel and HPLC analyses.
Endotoxin concentration	<1 EU/µg
Activity	Determined by its ability to inhibit 5.0 ng/ml of BMP-4 induced alkaline phosphatase production by ATDC-5 chondrogenic cells. The expected ED50 for this effect is 2.0-3.0 ng/ml of Noggin.
Conjugate	Unconjugated
Form	Lyophilized
Purification	purified
Contains	no preservative
Storage conditions	-20°C

Applications	Tested Dilution	Publications
Immunohistochemistry (IHC)	-	1 Publication
Flow Cytometry (Flow)	-	1 Publication
Functional Assay (Functional)	Assay-dependent	1 Publication
Inhibition Assays (IA)	-	1 Publication
In vitro Assay (IV)	-	140 Publications
Miscellaneous PubMed (Misc)	-	33 Publications

Product Specific Information

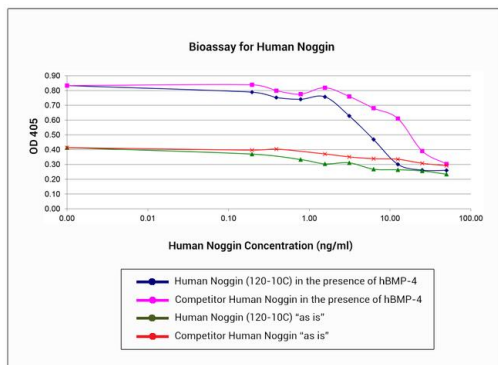
120-10C-1MG will be provided as 2 x 500 µg (120-10C-500UG).

Recombinant Human Noggin is a 46 kDa disulfide-linked homodimer consisting of two 205 amino acid polypeptide chains. Monomeric glycosylated noggin migrates at an apparent molecular weight of approximately 28.0-33.0 kDa by SDS PAGE analysis under reducing conditions.

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 Noggin Recombinant Protein, PeproTech®

Human Noggin Protein (120-10C-5UG) in Functional Bioassay analysis of Human Noggin Recombinant Protein, PeproTech® (Product # 120-10C-1MG).



Immunohistochemistry (1)

Frontiers in cellular and infection microbiology

Human Organotypic Airway and Lung Organoid Cells of Bronchiolar and Alveolar Differentiation Are Permissive to Infection by Influenza and SARS-CoV-2 Respiratory Virus.

"120-10C was used in Immunohistochemistry to investigate virulent affects of SARS-CoV-2 mutations on organoid models."

Authors: Ekanger CT,Zhou F,Bohan D,Lotsberg ML,Ramnefjell M,Hoareau L,Røsland GV,Lu N,Aanerud M,Gärtner F,Salminen PR,Bentsen M,Halvorsen T,Ræder H,Akslen LA,Langeland N,Cox R,Maury W,Stuhr LEB,Lorens JB,Engelsen AST

Year
2022

Species
Human

Flow Cytometry (1)

Cell stem cell

Plasticity of Lgr5-Negative Cancer Cells Drives Metastasis in Colorectal Cancer.

"120-10C was used in Flow cytometry/Cell sorting to show that most colorectal cancer metastases are seeded by Lgr5-cells, which display intrinsic capacity to become CSCs in a niche-independent manner and can restore epithelial hierarchies in metastatic tumors."

Authors: Fumagalli A,Oost KC,Kester L,Morgner J,Bornes L,Bruens L,Spaargaren L,Azkanaz M,Schelfhorst T,Berling E,Heinz MC,Postrach D,Seinstra D,Sieuwerts AM,Martens JWM,van der Elst S,van Baalen M,Bhowmick D,Vrisekoop N,Ellenbroek SIJ,Suijkerbuijk SJE,Snippert HJ,van Rheenen J

Year
2020

Species
Mouse

Functional Assay (1)

Journal of inflammation research

The Role of Bone Morphogenetic Protein 4 in Microglial Polarization in the Process of Neuropathic Pain.

"120-10C was used in In vivo experiments to investigate the relationship between bone morphogenetic protein 4 (BMP4) and microglial polarization in the process of neuropathic pain (NP)."

Authors: Liu C,Sun Q,Xu J,Shen W,Li H,Yang L

Year
2022

Species
Rat

Inhibition Assays (1)

Cell

Organoid cultures derived from patients with advanced prostate cancer.

Authors: Gao D,Vela I,Sboner A,Iaquinta PJ,Karthaus WR,Gopalan A,Dowling C,Wanjala JN,Undvall EA,Arora VK,Wongvipat J,Kossai M,Ramazanoglu S,Barboza LP,Di W,Cao Z,Zhang QF,Sirota I,Ran L,MacDonald TY,Beltran H,Mosquera JM,Touijer KA,Scardino PT,Laudone VP,Curtis KR,Rathkopf DE,Morris MJ,Danila DC,Slovin SF,Solomon SB,Eastham JA,Chi P,Carver B,Rubin MA,Scher HI,Clevers H,Sawyers CL,Chen Y

Year
2014

Species
Human

More applications with references on thermofisher.cn

IV (140) Misc (33)

For Research Use Only. Not for use in diagnostic procedures. Not for resale without express authorization. Products are warranted to operate or perform substantially in conformance with published Product specifications in effect at the time of sale, as set forth in the Production documentation, specifications and/or accompanying package inserts ("Documentation"). No claim of suitability for use in applications regulated by FDA is made. The warranty provided herein is valid only when used by properly trained individuals. Unless otherwise stated in the Documentation, this warranty is limited to one year from date of shipment when the Product is subjected to normal, proper and intended usage. This warranty does not extend to anyone other than the Buyer. Any model or sample furnished to Buyer is merely illustrative of the general type and quality of goods and does not represent that any Product will conform to such model or sample. NO OTHER WARRANTIES, EXPRESS OR IMPLIED, ARE GRANTED INCLUDING WITHOUT LIMITATION, IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE, OR NON INFRINGEMENT. BUYER'S EXCLUSIVE REMEDY FOR NON-CONFORMING PRODUCTS DURING THE WARRANTY PERIOD IS LIMITED TO REPAIR, REPLACEMENT OF OR REFUND FOR THE NON-CONFORMING PRODUCT(S) AT SELLER'S SOLE OPTION. THERE IS NO OBLIGATION TO REPAIR, REPLACE OR REFUND FOR PRODUCTS AS THE RESULT OF (I) ACCIDENT, DISASTER OR EVENT OF FORCE MAJEURE, (II) MISUSE, FAULT OR NEGLIGENCE OF OR BY BUYER, (III) USE OF THE PRODUCTS IN A MANNER FOR WHICH THEY WERE NOT DESIGNED, OR (IV) IMPROPER STORAGE AND HANDLING OF THE PRODUCTS. Unless otherwise expressly stated on the Product or in the documentation accompanying the Product, the Product is intended for research only and is not to be used for any other purpose, including without limitation, unauthorized commercial uses, in vitro diagnostic uses, ex vivo or in vivo therapeutic uses, or any type of consumption by or application to human or animals.