

Human Sonic Hedgehog C25II Recombinant Protein, PeproTech®

Product Details

Size	100 µg
Species	Human
Published Species	Human, Mouse, Xenopus
Expression system	E. coli
Amino acid sequence	IVIGPGRGFG KRRHPKKLTP LAYKQFIPNV AEKTLGASGR YEGKISRNSE RFKELTPNYN PDIIFKDEEN TGADRLMTQR CKDKLNALAI SVMNQWPGVK LRVTEGWDED GHHSEESLHY EGRALDITTS DRDRSKYGML ARLAVEAGFD WVYYESKAHI HCSVKAENSV AAKSGG
Molecular weight	20 kDa
Class	Recombinant
Type	Protein
Purity	98% by SDS-PAGE gel and HPLC analyses.
Endotoxin concentration	<1 EU/µg
Activity	Determined by its ability to induce alkaline phosphatase production by C3H/10T1/2 (CCL-226) cells. The expected ED50 for this effect is 0.8-1.0 ug/ml.
Conjugate	Unconjugated
Form	Lyophilized
Purification	purified
Contains	no preservative
Storage conditions	-20°C

Applications	Tested Dilution	Publications
Western Blot (WB)	-	1 Publication
Functional Assay (Functional)	Assay-dependent	-
In vitro Assay (IV)	-	32 Publications
Miscellaneous PubMed (Misc)	-	3 Publications

Product Specific Information

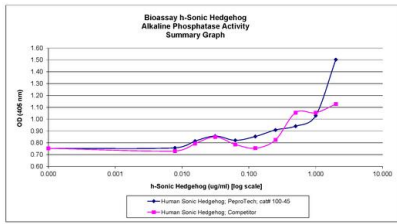
100-45-1MG will be provided as 2 x 500 µg (100-45-500UG).

Recombinant E.coli-derived Human Sonic Hedgehog is a 20.0 kDa protein consisting of 176 amino acid residues, including an N-terminal Ile-Val-Ile sequence substituted for the naturally occurring, chemically modified, Cys residue.

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 Sonic Hedgehog C25II Recombinant Protein, PeptoTech®

Human Sonic Hedgehog C25II Protein (100-45-100UG) in Functional Bioassay analysis of Human Sonic Hedgehog C25II Recombinant Protein, PeptoTech® (Product # 100-45-1MG).



Western Blot (1)

Acta neuropathologica communications

Forebrain Shh overexpression improves cognitive function and locomotor hyperactivity in an aneuploid mouse model of Down syndrome and its euploid littermates.

"100-45 was used in Western Blotting to study Shh overexpression in Down Syndrome brains and the effects on integrity and learning."

Authors: Gao FJ, Klinedinst D, Fernandez FX, Cheng B, Savonenko A, Devenney B, Li Y, Wu D, Pomper MG, Reeves RH

Year
2021

In vitro Assay (32)

Frontiers in cell and developmental biology

Generation and characterization of NGLY1 patient-derived midbrain organoids.

"100-45 was used in Cell Culture to provide a relevant NGLY1 disease model to investigate disease mechanisms and evaluate therapeutics for treatments of NGLY1 deficiency."

Authors: Abbott J, Tambe M, Pavlinov I, Farkhondeh A, Nguyen HN, Xu M, Pradhan M, York T, Might M, Baumgärtel K, Rodems S, Zheng W

Year
2023

Species
Human

Clinical & translational immunology

Endothelial, pericyte and tumor cell expression in glioblastoma identifies fibroblast activation protein (FAP) as an excellent target for immunotherapy.

Authors: Ebert LM, Yu W, Gargett T, Toubia J, Kollis PM, Tea MN, Ebert BW, Bardy C, van den Hurk M, Bonder CS, Manavis J, Ensbeys KS, Oksdath Mansilla M, Scheer KG, Perrin SL, Ormsby RJ, Poonnoose S, Koszyca B, Pitson SM, Day BW, Gomez GA, Brown MP

Year
2022

Species
Human

[View more IV references on thermofisher.cn](#)

Miscellaneous PubMed (3)

Military Medical Research

Direct conversion of human fibroblasts into dopaminergic neuron-like cells using small molecules and protein factors.

"100-45 was used in Sample Preparation to develop a chemical cocktail of small molecules and protein factors to convert human fibroblasts into DA neuron-like cells without passing through a neural progenitor/stem cell intermediate stage."

Authors: Qin H, Zhao AD, Sun ML, Ma K, Fu XB

Year
2020

Species
Human

[View more Misc references on thermofisher.cn](#)

More applications with references on thermofisher.cn

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.