

Human NT-3 Recombinant Protein, PeproTech®

Product Details

Size	10 µg
Species	Human
Published Species	Dog, Rat, Pig, Virus, Amphibian, Bovine, Human, Mouse, Chicken
Expression system	E. coli
Amino acid sequence	MYAEHKSHRG EYSVCDSESL WVTDKSSAID IRGHQVTVLG EIKTGNSPVK QYFYETRCKE ARPVKNGCRG IDDKHWNSQC KTSQTYVRAL TSENNKLVGVW RWIRIDTSCV CALSRKIGRT
Molecular weight	27.2 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 bind recombinant human TrkB Fc Chimera in a functional ELISA.
Conjugate	Unconjugated
Form	Lyophilized
Purification	purified
Contains	no preservative
Storage conditions	-20°C

Applications

Tested Dilution

Publications

Western Blot (WB)	Assay-dependent	-
ELISA (ELISA)	Assay-dependent	2 Publications
Functional Assay (Functional)	Assay-dependent	2 Publications
In vitro Assay (IV)	-	186 Publications
Miscellaneous PubMed (Misc)	-	32 Publications

Product Specific Information

Recombinant Human NT-3 is a noncovalently linked homodimer of two 13.6 kDa polypeptide monomers (240 total amino acid residues).

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

222 References

ELISA (2)

Nature communications

Laminin heparin-binding peptides bind to several growth factors and enhance diabetic wound healing.

Authors: Ishihara J,Ishihara A,Fukunaga K,Sasaki K,White MJV,Briquez PS,Hubbell JA

Year
2018

International journal of nanomedicine

Coseeded Schwann cells myelinate neurites from differentiated neural stem cells in neurotrophin-3-loaded PLGA carriers.

Authors: Xiong Y,Zhu JX,Fang ZY,Zeng CG,Zhang C,Qi GL,Li MH,Zhang W,Quan DP,Wan J

Year
2012
Species
Rat

Functional Assay (2)

JCI insight

Boosting peripheral BDNF rescues impaired in vivo axonal transport in CMT2D mice.

"450-03 was used in In vivo experiments to suggest that selectively targeting muscles with BDNF-boosting therapies could represent a viable therapeutic strategy for CMT2D."

Authors: Sleigh JN,Villaruel-Campos D,Surana S,Wickenden T,Tong Y,Simkin RL,Vargas JNS,Rhymes ER,Tosolini AP,West SJ,Zhang Q,Yang XL,Schiavo G

Year
2023
Species
Mouse

Journal of neuroscience research

Sustained release of neurotrophin-3 via calcium phosphate-coated sutures promotes axonal regeneration after spinal cord injury.

"450-03 was used in In vivo experiments to demonstrate that PNGs serve as scaffolds for axonal growth after SCI and that CaP-coated sutures can efficiently release NT-3 to increase axonal regeneration."

Authors: Hanna A,Thompson DL,Hellenbrand DJ,Lee JS,Madura CJ,Wesley MG,Dillon NJ,Sharma T,Enright CJ,Murphy WL

Year
2016
Species
Rat

More applications with references on thermofisher.cn

IV (186) Misc (32)

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