

## Mouse GDNF Recombinant Protein, PeproTech®

### Product Details

Size	1 mg
Species	Mouse
Published Species	Mouse, Human
Expression system	E. coli
Amino acid sequence	MSPDKQAAAL PRRERNRQAA AASPENSRGK GRRGQRGKNR GCVLTAIHLN VTDLGLGYET KEELIFRYCS GSCESAETMY DKILKNLSRS RRLTSDKVGQ ACCRPVAFDD DLSFLDDNLV YHILRKHSAK RCGCI
Molecular weight	30.2 kDa
Class	Recombinant
Type	Protein
Purity	98% by SDS-PAGE gel and HPLC analyses.
Endotoxin concentration	<1 EU/μg
Activity	The ED50 was determined by the proliferation of rat C6 cells is 0.2 ng/ml, corresponding to a specific activity of 5 x 10 <sup>6</sup> units/mg.
Conjugate	Unconjugated
Form	Lyophilized
Purification	HPLC, SDS-PAGE
Contains	no preservative
Storage conditions	-20°C

Applications	Tested Dilution	Publications
Western Blot (WB)	-	1 Publication
Functional Assay (FN)	Assay-dependent	-
In vitro Assay (IV)	-	32 Publications
Miscellaneous PubMed (Misc)	-	4 Publications

### Product Specific Information

The functional murine GDNF ligand is a disulfide-linked homodimer consisting of two 15.1 kDa polypeptide chains called monomers. Each monomer contains seven conserved cysteine residues, including Cys-101, which is used for inter-chain disulfide bridging, and others that are involved in the intramolecular ring formation known as the cysteine-knot configuration. The calculated molecular weight of Recombinant Murine GDNF is 30.2 kDa.

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

Western Blot (1)

<b>BMC neuroscience</b> <b>Schwann cells migrate along axons in the absence of GDNF signaling.</b> Authors: Heermann S,Spittau B,Zajzon K,Schwab MH,Krieglstein K	<b>Year</b> 2012
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In vitro Assay (32)

<b>Cell stem cell</b> <b>A cholinergic neuroskeletal interface promotes bone formation during postnatal growth and exercise.</b> "450-44 was used in In vitro experiments to uncover a cholinergic neuro-osteocyte interface that regulates skeletogenesis and skeletal turnover through bone-anabolic effects." Authors: Gadomski S,Fielding C,García-García A,Korn C,Kapeni C,Ashraf S,Villadiego J,Toro RD,Domingues O, Skepper JN,Michel T,Zimmer J,Sendtner R,Dillon S,Poole KES,Holdsworth G,Sendtner M,Toledo-Aral JJ,De Bari C, McCaskie AW,Robey PG,Méndez-Ferrer S	<b>Year</b> 2022  <b>Species</b> Mouse
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<b>Cell reports</b> <b>ALS-associated KIF5A mutations abolish autoinhibition resulting in a toxic gain of function.</b> "450-44 was used in Cell Culture to support the hypothesis that causative ALS mutations result in a toxic gain of function in the intracellular motor KIF5A that disrupts intracellular trafficking and neuronal homeostasis." Authors: Baron DM,Fenton AR,Saez-Atienzar S,Giampetruzzi A,Sreeram A,Keagle PJ,Doocy VR,Smith NJ,Danielson EW,Andresano M,McCormack MC,Garcia J,Bercier V, Van Den Bosch L,Brent JR,Fallini C,Traynor BJ,Holzbaue ELF, Landers JE	<b>Year</b> 2022  <b>Species</b> Mouse
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Miscellaneous PubMed (4)

<b>STAR protocols</b> <b>Analysis of mouse intestinal organoid culture with conditioned media isolated from mucosal enteric glial cells.</b> "450-44 was used in Cell Culture to provide a protocol which describes the isolation and culture of 3D intestinal crypt organoids with stromal niche cells which can be used to study the mechanisms of stem cell interaction with other stromal niche cell types such as mesenchymal cells and innate immune cells." Authors: Baghdadi MB,Kim TH	<b>Year</b> 2022  <b>Species</b> Mouse
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