

Supplementary Material 1

Neuroprotective potential of a TrkB-FL-derived cell-penetrating peptide in cochlear synaptopathy and noise-induced hearing loss

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Supplementary Table S-1. Key Resources Table. Description of reagents or resources used in the study with source and identifier

REAGENT or RESOURCE	SOURCE	IDENTIFIER
Antibodies		
Rabbit polyclonal anti- pS133-CREB (pCREB) , used at 1:250)	Millipore	Cat#06-519; RRID:AB_310153
Mouse monoclonal anti- CtBP2 (IgG ₁ ; used at 1:200)	BD Biosciences	Cat#612044; RRID:AB_399431
Mouse monoclonal anti- GluR2 (IgG _{2a} , used at 1:1000)	Millipore	Cat#MAB397; RRID:AB_211385
Rabbit monoclonal anti- GM130 (used at 1:500)	BD Biosciences	Cat# 610822; RRID:AB_398141
Rabbit polyclonal anti- Myosin VIIA (MyoVIIa) , used at 1:150)	Proteus Biosciences	Cat#25-6790; RRID:AB_10015251
Mouse monoclonal anti- Neurofilament 200 kDa (NF200) , used at 1:200)	Millipore	Cat#CBL212; RRID:AB_93408
Mouse monoclonal anti- PSD-95 (IgG _{2a} ; used at 1:500)	NeuroMab	Cat#75-028; RRID:AB_2877189
Rabbit polyclonal anti- TrkB-FL (C-ter region) (used at 1:500)	Abcam	Cat#ab18987; RRID:AB_444716
Goat anti-mouse IgG Alexa Fluor 546 (used at 1:500)	Invitrogen	Cat#A11003; RRID:AB_2534071
Goat anti-mouse IgG1 Alexa Fluor 488 (used at 1:500)	Invitrogen	Cat#A21121; RRID:AB_2535764
Goat anti-mouse IgG2a Alexa Fluor 555 (used at 1:500)	Invitrogen	Cat#A21137; RRID:AB_2535776
Goat anti-rabbit IgG Alexa Fluor 488 (used at 1:500)	Invitrogen	Cat#A11034; RRID:AB_2576217
Goat anti-rabbit IgG Pacific Blue (used at 1:200)	Invitrogen	Cat#P10994; RRID:AB_2539814
Cell-penetrating peptides		
Bio-MTMyC (Biotin-Ahx-YGRKKRRQRRRAEEQKLISEEDLLR-NH ₂)	GenScript	N/A
Bio-MTFL₄₅₇ (Biotin-Ahx-YGRKKRRQRRRHSGFGMKGPASVIS-NH ₂)	GenScript	N/A
MTMyC (Ac-YGRKKRRQRRRAEEQKLISEEDLLR-NH ₂)	GenScript	N/A
MTFL₄₅₇ (Ac-YGRKKRRQRRRHSGFGMKGPASVIS-NH ₂)	GenScript	N/A
Chemicals and culture products		
Cytosine arabinoside (AraC) , used at 0.3 mg/ml)	Sigma-Aldrich	Cat#C1768; CAS: 147-94-4
DAPI (used at 1:1000)	Invitrogen	Cat#D1306
Dulbecco's Modified Eagle's Medium/ Ham's Nutrient Mixture F12 (DMEM-F12)	Thermo Fisher Scientific	Cat#21331-020
Ethylenediaminetetraacetic acid (EDTA) , used at 5%)	Sigma-Aldrich	Cat#E26290; CAS: 194491-31-1
Fluorescein (FITC)-avidin D (used at 1:30)	Vector Laboratories	Cat#A 2001
Fluoro-Jade C (used at 0.0004%)	Millipore	Cat#AG325
Fluoromount-G	SouthernBiotech	Cat#0100-01
D-glucose (used at 8.25 mM)	Sigma-Aldrich	Cat#G6152; CAS: 50-99-7
L-glutamine (used at 2 mM)	Thermo Fisher Scientific	Cat#25030-024
Glycine (used at 10 μ M)	Bio-Rad	Cat#161-0718
Goat serum	Sigma-Aldrich	Cat#G9023

Hank's Balanced Salt Solution (HBSS)	Thermo Fisher Scientific	Cat#14025-050
Insuline-Transferrine-Selenium 100X (used at 1x)	Thermo Fisher Scientific	Cat#41400-045
Kainate (used at 500 μ M)	Sigma-Aldrich	Cat#K0250; CAS: 58002-62-3
Ketamine (Ketamidol) , used at 100 mg/kg)	VetViva Richter GmbH	ATCvet:QN01AX03
N2 supplement 100X (used at 1x)	Thermo Fisher Scientific	Cat#41400-045
NMDA (used at 500 μ M)	Tocris	Cat#0114; CAS: 6384-92-5
Phalloidin 647 (used at 1:200)	Invitrogen	Cat#A22287
Paraformaldehyde (PFA) , used at 4%)	Sigma-Aldrich	Cat#158127 CAS: 30525-89-4
Penicilin G (used at 30 U/ml)	Sigma-Aldrich	Cat#P3032; CAS: 69-57-8
Pentobarbital sodium (Dolethal) , used at 150 mg/kg)	Vetoquinol	ATCvet:QN51AA01
Sucrose	Sigma-Aldrich	Cat#16104; CAS: 57-50-1
Tissue-Teck OCT	Miles Diagnostic Division	Cat#4583
TO-PRO3 (used at 1:1000)	Invitrogen	Cat#T3605
Triton X-100	Millipore	Cat#108603; CAS: 9036-19-5
Xylazine (Rompun) , used at 10 mg/kg)	Bayer	ATCvet:QN05CM92
Experimental Models: Organisms/Strains		
RjOrl:SWISS embryos mice (P2)	Janvier Labs, France	N/A
C57BL/6j mice	In site facility	N/A
Software		
BioSigRZ (https://www.tdt.com/)		RRID:SCR_014590
Fiji (http://fiji.sc)		RRID:SCR_002285
GraphPad Prism (http://www.graphpad.com/)		RRID:SCR_002798
Imaris (https://imaris.oxinst.com/)		RRID:SCR_007370
Other		
Disposable stainless steel needle electrodes	Technomed Medical	Cat#TE/S50716-001
6-well ThinCert™ cell culture inserts for multiwell plates	Greiner	Cat#657610