

Cellular Membrane Affinity Chromatography Columns to Identify Specialized Plant Metabolites Interacting with Immobilized Tropomyosin Kinase Receptor B

Zekiye Ceren Arituluk^{1,2}, Bishnu Adhikari¹, Urmila Maitra¹, Caroline Goodman¹, Lukasz M. Ciesla¹

¹Department of Biological Sciences, The University of Alabama ²Department of Pharmaceutical Botany, Faculty of Pharmacy, Hacettepe University

Corresponding Author

Lukasz M. Ciesla

lmciesla@ua.edu

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Materials

Name	Company	Catalog Number	Comments
7-8 Dihydroxyflavone hydrate	Sigma-Aldrich	D5446-10 mg	≥98% (HPLC)
Adenosine 5'-triphosphate (ATP) disodium salt hydrate	Sigma-Aldrich	A2383-1 g	
Ammonium acetate	VWR Chemicals BDH	BDH9204-500 g	
BDNF antibody	Invitrogen	PA5-15198-400 µL	Primary antibody; 2 mg/mL of concentration
Benzamidine hydrochloride hydrate	Sigma-Aldrich	B6506-25 g	
Brain derived neurotrophic factor (BDNF) human	Sigma-Aldrich	B3795-10 µg	Recombinant, expressed in E. coli, lyophilized powder, suitable for cell culture
Calcium chloride	VWR Analytical	BDH9224-1 kg	
Cholic acid sodium salt	Alfa Aesar	J62050-100 g	
Dounce homogenizer	VWR	71000-516	40 mL, 285 mm (overall length), 32 x 140 mm (O.D. x H)
Ethanol	Sigma-Aldrich	493511	
Ethylenediaminetetraacetic acid (EDTA)	VWR Analytical	BDH-9232-500 g	
Fetal bovine serum	Sigma-Aldrich	F2442-500 mL	sterile-filtered, suitable for cell culture
G418 disulfate salt solution	Sigma-Aldrich	G8168-100 mL	50 mg/mL in H ₂ O, 0.1 µm filtered, suitable for cell culture
Glycerol	VWR Life Science	E520-100 mL	
Immobilized artificial membrane (IAM.PC.DD2)	Regis Technologies, Inc.	1-771050-500	
Magnesium chloride hexahydrate	VWR Analytical	BDH9244-500 mL	
Methanol	Sigma-Aldrich	322425	
Nikon C2 DUVb	Nikon		Confocal laser scanning microscope
Normal goat serum (10%)	Life Technologies	50197Z	
Penicillin-Streptomycin	Sigma-Aldrich	P4333-100 mL	

Phenylmethanesulfonyl fluoride (PMSF)	Thermo Scientific	36978-5 g	
Phosphate buffered saline (PBS)	VWR Life Science	K812-500 mL	1x
Potassium chloride	VWR Chemicals BDH	0395-1 kg	
Protease inhibitor cocktail	VWR Life Science Ambreso	M221-1 mL	Proteomics grade, containing 50 mM AEBSF, 30 μ M aprotonin, 1 mM bestatin, 1 mM E-64 and 1 mM leupeptin
RPMI-1640 medium	Sigma-Aldrich	R8758-500 mL	with L-glutamine and sodium bicarbonate, liquid, sterile-filtered, suitable for cell culture
Secondary antibody goat anti-rabbit IgG (H+L)	Invitrogen Alexa Flour Plus 488	A32731	
SH-SY5Y Neuroblastoma cell lines expressing Trk-B	Kerafast	ECP007	
SH-SY5Y Trk-NULL cell line	Kerafast	ECP005	
Snake skin dialysis tubing	Thermo Scientific	88245	10K MWCO, 35 mm dry I.D.
Sodium azide	Sigma-Aldrich	S2002	
Sodium chloride	BDH VWR Analytical	BDH9286-2.5 kg	
Tricorn 5/20 column	GE Healthcare	24-4064-08	
Tris-HCl	VWR Life Science	0497-1 kg	
Trypsin-EDTA solution	Sigma-Aldrich	T4049-500 mL	0.25%, sterile-filtered, suitable for cell culture, 2.5 g porcine trypsin and 0.2 g EDTA