

Materials List for:

Studying the Hypothalamic Insulin Signal to Peripheral Glucose Intolerance with a Continuous Drug Infusion System into the Mouse Brain

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Materials

Name	Company	Catalog Number	Comments
Vetbond Tissue Adhesive	3M	#1049SB	The glue used to seal the lesion site on the mouse head
LOCTITE 454 instant adhesive	Durect Corporation	#8670	The glue used to fix the needle on the mouse skull
Alzet Micro- Osmotic Pump	Durect Corporation	#9922	0.11 µl per hour, 28 days
Brain infusion system	Durect Corporation	#8851	1-3 mm, used to perfuse the drug in to the mice brain
Glucometer	Roche	#06870244001	Used to measure the blood glucose level
Glucose chip	Roche	#06454011020	Used to load the blood sample
Evan's blue	Sigma	#MKBK0523V	To demonstrate the drug infusion area
Insulin syringe	Becton, Dickinson and Company	#3232145 C	Used to administer insulin intraperitoneally
MIO NE116 CONTROL UNIT (nail drill)	Mio System	#E235-015	To drill a hole in the skull of the mouse
CCL5/Met-RANTES Protein	R&D	#ADB0111081	Recombinant Human CCL5, E-coli derived
aCSF formula	119 mM NaCl 26.2 mM NaHCO ₃ 2.5 mM KCl 1 mM NaH ₂ PO ₄ 1.3 mM MgCl ₂ 10 mM glucose		Filter sterilize with a 0.22 µm filter apparatus, and store at 4°C. aCSF is stable for 3-4 weeks
Phospho-IRS-1 Serine302 antibody	Cell Signaling	#12879	1:1000 dilution
IRS-1 (D23G12) antibody	Cell Signaling	#12879	1:1000 dilution
Phospho-Akt Serine 473 antibody	Cell Signaling	#9916	1:2000 dilution
Akt (pan) (C67E7) antibody	Cell Signaling	#9916	1:1000 dilution
Animals: C57BL/6	NAR Labs		Wild type mice strain used in the study