

Materials List for:

High-throughput Screening for Small-molecule Modulators of Inward Rectifier Potassium Channels

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Materials

Name	Company	Catalog Number	Comments
pcDNA5/TO	Invitrogen	V1033-20	Tetracycline-inducible expression vector
T-REx-HEK293 cells	Invitrogen	R71007	Tetracycline-inducible cell line
Lipofectamine LTX/Plus Reagent	Invitrogen	15338100	Transfection reagent
FBS	ATLANTA Biologicals	S11550	Cell culture media
DMEM	Invitrogen	11965	Cell culture media
Hygromycin B	Invitrogen	10687-010	Cell culture media
Blasticidin S	Invitrogen	R210-01	Cell culture media
Penicillin/Streptomycin	Invitrogen	15140	Cell culture media
HBSS-divalent free	Mediatech	21022CV	Cell washing
Trypsin-0.25%	Mediatech	25053CI	Cell dissociation
Tetracycline-HCl	Sigma	T9823	Induction reagent
Dialyzed FBS	ATLANTA Biologicals	S12650	Plating media
FluoZin-2	Invitrogen	F24189	Fluorescent dye
Pluronic F-127	Invitrogen	P-3000MP	Dye loading
HBSS	Invitrogen	14175	Assay buffer
HEPES	Invitrogen	15630	Assay buffer
NaHCO ₃	Sigma	S6297	Tl ⁺ stimulus buffer
MgSO ₄	Sigma	M2643	Tl ⁺ stimulus buffer
CaSO ₄ ·2H ₂ O	Sigma	C3771	Tl ⁺ stimulus buffer
D-Glucose	Sigma	G7528	Tl ⁺ stimulus buffer
Thallium sulfate	Aldrich	204625	Tl ⁺ stimulus buffer
HEPES	Sigma	H4034	Tl ⁺ stimulus buffer
DMSO	Sigma	D4540	Solvent
Eight-channel electronic pipettor	Biohit	E300	Cell plating in 384-well plates
BD PureCoat amine-coated 384-well plates	BD Biosciences	356719	Assay microplates
Echo qualified 384-Well polypropylene microplate (384PP)	Labcyte	P-05525	Compound source microplates
384-well polypropylene microplates	Greiner Bio-One	781280	
Multidrop Combi reagent dispenser	Thermo Scientific	5840300	
ELx405 microplate washer	BioTek	ELx405HT	Automated cell washing

Echo liquid handler	Labcyte	Labcyte Echo 550	
Bravo automated liquid handling platform	Agilent Technologies	Standard model	
Hamamatsu FDSS 6000	Hamamatsu		Kinetic imaging plate reader
Table 1. List of Materials and Reagents.			