

Materials List for:

A Semi-High-Throughput Adaptation of the NADH-Coupled ATPase Assay for Screening Small Molecule Inhibitors

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Materials

Name	Company	Catalog Number	Comments
384-well Low Flange Black Flat Bottom Polystyrene NBS Microplate	Corning	3575	
ATP (Adenosine 5'-triphosphate disodium salt hydrate)	Sigma	A7699	
Aurora FRD-IB Dispenser	Aurora Discovery, Inc.	00017425	
Biomek NXP Multichannel Laboratory Automation Workstation	Beckman Coulter	A31841	
Blebbistatin	AMRI	N/A	Custom synthesis
BSA (Bovine Serum Albumin, Protease-Free)	Akron Biotech	AK1391	
Centrifuge 5430 R, refrigerated, with Rotor FA-35-6-30	Eppendorf	022620663	
Centrifuge 5430, non-refrigerated, with Rotor A-2-MTP	Eppendorf	022620568	
DMSO (Dimethyl sulfoxide)	Sigma	D2650	
DTT (DL-Dithiothreitol)	Sigma	D5545	
E1 ClipTip Multichannel Pipette; 384-format; 8-channel	Thermo Scientific	4672010	
E1 ClipTip Multichannel Pipette; 96-format; 8-channel	Thermo Scientific	4672080	
EGTA (Ethylene glycol-bis(2-aminoethylether)-N,N,N',N'-tetraacetic acid)	Sigma	E3889	
EnVision 2104 Multilabel Plate Reader	PerkinElmer	2104-0010	
Glycerol	Sigma	G2025	
LDH (L-Lactic Dehydrogenase from rabbit muscle)	Sigma	L1254	
MgCl ₂ ·6H ₂ O (Magnesium chloride hexahydrate)	Sigma	M2670	
Microplate Shaker	VWR	12620-926	
Microplate, 384 well, PP, Small Volume, Deep Well, Natural	Greiner Bio-One	784201	
MOPS (3-(N-Morpholino)propanesulfonic acid)	Sigma	M1254	
Myosin Motor Protein (full length) (Bovine cardiac muscle)	Cytoskeleton	MY03	

Myosin Motor Protein (full length) (Rabbit skeletal muscle)	Cytoskeleton	MY02	
NADH (β -Nicotinamide adenine dinucleotide, reduced disodium salt hydrate)	Sigma	N8129	
NaN ₃ (Sodium azide)	Sigma	71289	
NaOH (Sodium hydroxide)	Sigma	S8045	
Optical Filter CFP 470/24nm (Emission)	PerkinElmer	2100-5850	Barcode 240
Optical Filter Fura2 380/10nm (Excitation)	PerkinElmer	2100-5390	Barcode 112
Optical Module: Beta Lactamase	PerkinElmer	2100-4270	Barcode 418
OriginPro 2017 software	OriginLab	N/A	
<i>para</i> -Aminoblebbistatin	AMRI	N/A	Custom synthesis
<i>para</i> -Nitroblebbistatin	AMRI	N/A	Custom synthesis
PEP (Phospho(enol)pyruvic acid monopotassium salt)	Sigma	P7127	
PK (Pyruvate Kinase from rabbit muscle)	Sigma	P9136	
Rabbit Muscle Acetone Powder	Pel Freez Biologicals	41995-2	