

Exploring Biomolecular Interaction Between the Molecular Chaperone Hsp90 and Its Client Protein Kinase Cdc37 using Field-Effect Biosensing Technology

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Materials

Name	Company	Catalog Number	Comments
Automated analysis software	Agile plus software, Cardea (Nanomed)	NA CAS number: NA	Referred to in the text as the automated analysis software supplied with the instrument. Generates automated analysis.
COOH-BPU (Biosensing Processing Unit)	Agile plus software, Cardea (Nanomed)	NA CAS number: NA	biosensor chip
Data review software	Datalign 1.0, Cardea (Nanomed)	NA CAS number: NA	Referred to as the supplied data review software in the text. Supplied with the instrument and allows to review and export the information data points.
Dialysis bag	CelluSep, Membrane filtration products	T2-10-15 CAS number: NA	T2 tubings (6,000-8,000 MWCO), (10 mm fw, 6.4mm Ø, 0.32ml/cm, 15m)
EDC (1-Ethyl-3-(3-dimethylamino propyl) carbodiimide)	Cardea (Nanomed)	EDC160322-02 CAS number: 25952-53-8	White powder
ITC (Isothermal titration calorimetry) system	Microcal-PEAQ-ITC (Malvern, United Kingdom)	NA CAS number: NA	
MES (2-(N-morpholino) ethane sulfonic acid) buffer	Merck	M3671-50G CAS number: 4432-31-9	White powder
NHS (N-Hydroxysulfosuccinimide) chips	Cardea (Nanomed)	NA CAS number: NA	Graphene-based chip
PBS (Phosphate-buffered saline) X 10	Bio-Lab	001623237500 CAS number: 7758-11-4	Liquid transparent solution
Pipete	Thermo Scientific	11855231 CAS number: NA	Finnpipette F3 5-50 µL, yellow
Quench 1 (3.9 mM amino-PEG5-alcohol in 1 X PBS)	Cardea (Nanomed)	0105-001-002-001 CAS number: NA	Liquid, transparent solution
Quench 2 (1 M ethanolamine (pH=8.5))	Cardea (Nanomed)	0105-001-003-001 CAS number: NA	Liquid, transparent solution
Recombinant protein Cdc37	Abcam	ab256157 CAS number: NA	

Recombinant protein Hsp90 beta	Abcam	ab80033 CAS number: NA	
Spreadsheet	Excel, Microsoft office	NA CAS number: NA	
Statistical software	GraphPad, Prism	NA CAS number: NA	Referred to as the other statistical software. Sigma plot, phyton or other statistical programmes may also be used
Sulfo-NHS	Cardea (Nanomed)	NHS160321-07 CAS number: 106627-54-7	White powder
Tips	Alex red	LC 1093-800-000 CAS number: NA	Tip 1-200 µl, in bulk, 1,000 pcs