

Materials List for:

Identification of Small Molecule-binding Proteins in a Native Cellular Environment by Live-cell Photoaffinity Labeling

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Materials

Name	Company	Catalog Number	Comments
Tris(2-carboxyethyl)phosphine (TCEP)	Life Technologies	20490	Make fresh day of use. Prepare 100 mM stock in water with 4 eq NaOH.
Tris[(1-benzyl-1H-1,2,3-triazol-4-yl)methyl] amine (TBTA)	AnaSpec	63360-50	Prepare 1.7 mM stock in a 4:1 ratio of t-butanol to DMSO, store at -20 °C.
Copper Sulfate (CuSO ₄ •5H ₂ O)	LabChem, Inc.	LC13440-1	Prepare 50 mM stock in water, store at room temperature.
Biotin-azide	Click Chemistry Tools	AZ104-100	Prepare 10 mM stock in DMSO, store at -20 °C.
Alexa Fluor 647-azide	Life Technologies	A10277	Prepare 1 mM stock in DMSO, store at -20 °C.
365 nm UV lamp	Spectroline	FC100	UV-blocking glasses should be worn while operating.
Protease inhibitor tablets, EDTA-free	Roche Life Science	11873580001	Prepare 50x solution in water and store at -20 °C.
Sonicator	Branson	Sonifier 250	Set to output 1, duty 30%.
Fluorescent gel scanner	GE Healthcare Life Sciences	FLA 9500	Use red laser to detect Alexa-fluor 647.
Detergent-compatible Dc protein assay kit	Bio-Rad	5000112	
High Capacity Streptavidin Agarose beads	Life Technologies	20359	
Dulbecco's Modified Eagles Medium, low glucose	ThermoFisher Scientific	11885092	
Fetal Bovine Serum, qualified	ThermoFisher Scientific	26140079	
Penicillin/Streptomycin solution	ThermoFisher Scientific	15140122	
SDS Sample Buffer (2x)	ThermoFisher Scientific	LC2676	