

Materials List for:

Single-Cell Quantification of Protein Degradation Rates by Time-Lapse Fluorescence Microscopy in Adherent Cell Culture

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Materials

Name	Company	Catalog Number	Comments
Equipment			
ES cell line expressing a SNAP-tag fusion protein of interest	-	-	
Falcon 100 mm TC-Treated Cell Culture Dish	Corning	353003	
96 Well, Black/Clear, Tissue Culture Treated Plate	Corning	353219	
Neubauer-improved counting chamber, 0.1 mm	Marienfeld-superior	640030	
CO2 Incubator	Panasonic	MCO-170AICUV-PE	
Centrifuge 5804 R	Eppendorf	5804000528	
InCell Analyzer 2200 Cell Imaging System	GE Healthcare Life Sciences	29027886	
Name			
Company			
Catalog Number			
Comments			
Reagents			
Glasgow Minimum Essential Medium	Sigma-Aldrich	G5154	
Fetal Bovine Serum, embryonic stem cell-qualified	ThermoFisher	16141-079	
Sodium pyruvate solution	Sigma-Aldrich	113-24-6	
Minimum Essential Medium Non-Essential Amino Acids	ThermoFisher	11140-035	
Penicillin-Streptomycin	BioConcept	4-01F00H	
L-Glutamine 200mM	ThermoFisher	25030-024	
2-Mercaptoethanol	Sigma-Aldrich	63689-25ML-F	
Leukemia Inhibitory factor	-	-	Produced in the lab by transient transfection of HEK-293T cells, followed by collection and filtering of the supernatant.
CHIR99021 (GSK-3 Inhibitor XVI)	Merck Millipore	361559	
PD 0325901	Sigma-Aldrich	391210-10-9	
Gelatin from bovine skin	Sigma-Aldrich	9000-70-8	
Dulbecco's PBS 10x concentrated	BioConcept	3-05K00-I	
Dulbecco's PBS Without Ca ⁺⁺ /Mg ⁺⁺	BioConcept	3-05F29-I	
Trypsin-EDTA-Solution 0.25%	Sigma-Aldrich	T4049	
Recombinant Mouse E-Cadherin Fc Chimera protein	R&D systems	748-EC-050	

Doxycycline hyclate	Sigma-Aldrich	D9891	
SNAP-Cell 647-SiR	New England BioLabs	S9102S	
FluoroBrite DMEM	ThermoFisher	A18967-01	
Name	Company	Catalog Number	Comments
Software			
FIJI	-	-	Open-source image analysis software
MATLAB R2014a	Mathworks	-	
Microsoft Excel	Microsoft	-	