

Materials List for:

# Synthesis and Characterization of an Aspirin-fumarate Prodrug that Inhibits NFκB Activity and Breast Cancer Stem Cells

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## Materials

Name	Company	Catalog Number	Comments
RPMI 1640 Red Medium	Life Technologies	11875-093	Warm up to 37 °C before use
IMEM	Corning	10-024-CV	Warm up to 37 °C before use
DMEM / F12 Medium	ThermoFisher	21041-025	Warm up to 37 °C before use
MEM NEAA 10 mM 100x	Life Technologies	11140	
Penicillin Streptomycin	Life Technologies	15140-122	
L-Glutamine 100x	Life Technologies	25030-081	
Insulin	Sigma-Aldrich	I-1882	
Fetal Bovine Serum	Atlanta Biologicals	S11150	
Trypsin 2.5% 10x	Invitrogen	15090046	
Methyl Cellulose	Sigma	M0262	
B27 Supplement 50x	Gibco	17504-044	
EGF	Gibco	PHG0311L	
NFκB-RE Luciferase Construct	Clontech	pGL4.32	
Renilla Luciferase Construct	Promega	pGL4.70	
Lipofectamine 2000	ThermoFisher	11668-019	
Dual-Luciferase Reporter Assay	Promega	120000032	
NanoDrop Spectrophotometer	ThermoFisher		
Eppendorf Mastercycler	Eppendorf		
StepOne Real Time PCR System	Thermo Scientific		
Eclipse Microscope	Nikon		
CyAn ADP Analyzer	Beckman Coulter		
QCapture Software	QImaging		
Summit Software	Beckman Coulter		
GraphPad Software	Prism		
TRIzol	ThermoFisher	15596-018	
M-MLV Reverse Transcriptase	Invitrogen	28025-013	
100 mM dNTP Set	Invitrogen	10297-018	
Random Hexamers	Invitrogen	48190-011	
Fast SYBR Green Master Mix	ThermoFisher	4385612	
Costar 96W, ultra low attachment	Corning	3474	
HBSS, 1x	ThermoFisher	14025134	
CD44-APC conjugated antibody	BD Pharmingen	560990	Store at 4 °C, protect from light

CD24-PE antibody	BD Pharmingen	560991	Store at 4 °C, protect from light
Recombinant Human TNF $\alpha$	Fisher	210TA100	
CCL2 Primer Forward Sequence			AGAATCACCAGCAGCAAGTGTCC
CCL2 Primer Reverse Sequence			TCCTGAACCCACTTCTGCTTGG
ICAM1 Primer Reverse Sequence			TGACGAAGCCAGAGGTCTCAG
ICAM1 Primer Forward Sequence			AGCGTCACCTTGGCTCTAGG
TNF Primer Forward Sequence			AAGGGTGACCGACTCAGCG
TNF Primer Reverse Sequence			ATCCCAAAGTAGACCTGCCCA
36B4 Primer Forward Sequence			GTGTTCCACAATGGCAGCAT
36B4 Primer Reverse Sequence			GACACCCTCCAGGAAGCGA
Sodium Hydroxide	Sigma-Aldrich	S5881-500G	
4-Hydroxybenzyl Alcohol	Sigma-Aldrich	20806-10G	
O-Acetylsalicyloyl Chloride	Sigma-Aldrich	165190-5G	
Phosphorous Pentoxide	Sigma-Aldrich	79610-100G	
Ethyl Fumaroyl Chloride	Sigma-Aldrich	669695-1G	
Sodium Sulfate	Sigma-Aldrich	246980-500G	
4-Dimethylaminopyridine	Sigma-Aldrich	714844-100ML	0.5 M in tetrahydrofuran
Triethylamine	Sigma-Aldrich	T0886-100ML	
Toluene	Sigma-Aldrich	244511-100ML	
Ethyl Acetate	Sigma-Aldrich	270989-100ML	
Tetrahydrofuran	Sigma-Aldrich	401757-2L	
400 MHz FT NMR spectrometer			See Bruker's Avance User's Manual, version 000822 for details