

Developing and Testing Methylated Nano-Structured Dipeptides that Inhibit Src Kinase Activity *In Vitro* for Anti-Cancer Applications

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Materials

Name	Company	Catalog Number	Comments
1,4-Dithiothreitol	Sigma-Aldrich	10708984001	Peptide synthesis
Aldrich fritted filter funnel for solid-phase synthesis	Sigma-Aldrich	Z283304	Peptide synthesis vessel
Alexa594 Tracer	Bell Brook Labs, Madison, WI	3013	
Anisole	Sigma-Aldrich	8014520500	
CellTiter 96 AQueous One Solution Cell Proliferation Assay reagents	Promega	G3582	Cell proliferation assay (MTS reagent)
Dichloromethane, 99.9%, Extra Dry	Fishersci	AC326850025	
Fmoc-ADMA(Pbf)-OH	Sigma-Aldrich	8521070001	
Fmoc-Arg(Me,Pbf)-OH	Sigma-Aldrich	8521050001	
Fmoc-Arg(Pbf)-OH	Sigma-Aldrich	8520670025	
Fmoc-Trp(Boc)-OH	Sigma-Aldrich	47561-25G-F	
HPLC C18 column	Shimadzu (RP-HPLC system)		water/acetonitrile gradient
IRDye QC-1 quencher	Bell Brook Labs, Madison, WI	3013	
Microplate reader SpectraMax M2e	Molecular devices		
Microsoft Excel	Microsoft		spreadsheet software
N,N-Diisopropylethylamine (DIPEA)	Sigma-Aldrich	496219	
N,N-Dimethylformamide, anhydrous, 99.8%	Fishersci	AA43997M1	
Piperidine 20%	Sigma-Aldrich	80645	
Rink Amide resin (100-200 mesh)	Sigma-Aldrich	8550010025	
Thioanisole	Sigma-Aldrich	92358	
Transcreener ADP2 FI Assay	Bell Brook Labs, Madison, WI	3013	c-Src kinase activity assay kit