

Supplementary Table 1. Tyrosine Kinase Inhibitor Screening Data

Category	Parameter	Description
Assay	Type of assay	Cell-based
	Target	Tyrosine kinase inhibitor library purchased from Selleckchem (version of 2016), ESK981 was provided by Esanik Therapeutics
	Primary measurement	Detection of cell viability
	Key reagents	Cell culture media, DMSO, formaldehyde, crystal violet
	Assay protocol	Detailed methods are provided in the Methods section of this study
	Additional comments	
Library	Library size	168 compounds
	Library composition	A collection of tyrosine kinase inhibitors with known targets
	Source	Selleckchem (version of 2016), ESK981 was provided by Esanik Therapeutics
	Additional comments	
Screen	Format	96 well
	Concentration(s) tested	300 nM compound, 0.1% DMSO
	Plate controls	DMSO at a final concentration of 0.1%
	Reagent/ compound dispensing system	Manual
	Detection instrument and software	Tecan M1000 plate reader
	Assay validation/QC	Top targets were consistent with previous publications
	Correction factors	Not applicable
	Normalization	Normalized to DMSO control
	Additional comments	
Post-HTS analysis	Hit criteria	Cell viability less than DMSO control
	Hit rate	34 out of 168 (20%) compounds showed proliferation inhibitory effect when compared with DMSO control
	Additional assay(s)	Follow up viability assay was performed for targets of interest
	Confirmation of hit purity and structure	Purity of compounds were ensured by NMR and HPLC
	Additional comments	

Supplementary Table 2. SYBR green qPCR primer sequences

Gene Name	Forward	Reverse
<i>GAPDH</i>	TGCACCACCAACTGCTTAGC	GGCATGGACTGTGGTCATGAG
<i>CXCL10</i>	GGTGAGAAGAGATGTCTGAATCC	GTCCATCCTTGAAGCACTGCA
<i>CXCL9</i>	CTGTTCTGCATCAGCACCAAC	TGAACTCCATTCTTCAGTGTAGCA
<i>PIKFYVE</i>	CTGAGTGATGCTGTGTGGTCAAC	CAAGGACTGACACAGGCACTAG
<i>PIP5K1C</i>	ACTACAGCCTCCATTGCCACGA	CATCCTGTCCAGACGACTGTGT
<i>PIK3CA</i>	GAAGCACCTGAATAGGCAAGTCG	GAGCATCCATGAAATCTGGTCGC
<i>Gapdh</i>	CATCACTGCCACCCAGAAGACTG	ATGCCAGTGAGCTTCCCCTTCAG
<i>Cxcl10</i>	ATCATCCCTGCGAGCCTATCCT	GACCTTTTTTGGCTAAACGCTTTC
<i>Cxcl9</i>	CCTAGTGATAAGGAATGCACGATG	CTAGGCAGGTTTGATCTCCGTTTC
<i>Cd3e</i>	GCTCCAGGATTTCTCGGAAGTC	ATGGCTACTGCTGTCAGGTCCA