

Table SI. TOP 10 SW1736 upregulated pathways.

PANTHER pathways	Number of genes	P-value
Gonadotropin-releasing hormone receptor pathway (P06664)	19	2.33×10^{-1}
CCKR signaling map (P06959)	19	5.82×10^{-1}
Inflammation mediated by chemokine and cytokine signaling pathway (P00031)	16	4.35×10^{-1}
Apoptosis signaling pathway (P00006)	15	6.53×10^{-1}
Integrin signalling pathway (P00034)	11	3.85×10^{-1}
Interleukin signaling pathway (P00036)	11	7.64×10^{-1}
Oxidative stress response (P00046)	10	8.73×10^{-2}
PDGF signaling pathway (P00047)	10	9.89×10^{-1}
Wnt signaling pathway (P00057)	9	1.48×10^{-1}
Angiogenesis (P00005)	9	2.50×10^{-1}

Table SII. TOP 10 SW1736 downregulated pathways.

PANTHER pathways	Number of genes	P-value
Wnt signaling pathway (P00057)	13	1.31×10^{-1}
Cadherin signaling pathway (P00012)	10	2.33×10^{-2}
Gonadotropin-releasing hormone receptor pathway (P06664)	7	8.65×10^{-1}
Angiogenesis (P00005)	6	2.87×10^{-1}
Integrin signalling pathway (P00034)	5	1.20×10^{-1}
TGF-beta signaling pathway (P00052)	5	8.28×10^{-1}
Inflammation mediated by chemokine and cytokine signaling pathway (P00031)	5	9.97×10^{-1}
Nicotinic acetylcholine receptor signaling pathway (P00044)	4	2.17×10^{-1}
p53 pathway feedback loops 2 (P04398)	4	2.72×10^{-1}
p53 pathway (P00059)	4	3.18×10^{-1}

Table SIII. TOP 10 8505C upregulated pathways.

PANTHER pathways	Number of genes	P-value
Wnt signaling pathway (P00057)	62	7.42×10^{-1}
Angiogenesis (P00005)	50	8.45×10^{-1}
Inflammation mediated by chemokine and cytokine signaling pathway (P00031)	50	2.62×10^{-1}
VEGF signaling pathway (P00056)	34	5.63×10^{-1}
EGF receptor signaling (P00018)	32	9.90×10^{-1}
B cell activation (P00010)	32	9.79×10^{-1}
Interleukin signaling pathway (P00036)	30	8.81×10^{-1}
Cadherin signaling pathway (P00012)	30	1.38×10^{-1}
Apoptosis signaling pathway (P00006)	23	6.08×10^{-1}
Gonadotropin-releasing hormone receptor pathway (P06664)	23	3.42×10^{-2}

Table SIV. TOP 10 SW1736 downregulated pathways.

PANTHER pathways	Number of genes	P-value
Cadherin signaling pathway (P00012)	29	4.83×10^{-1}
Wnt signaling pathway (P00057)	29	4.83×10^{-1}
Heterotrimeric G-protein signaling pathway-Gi alpha and Gs alpha mediated pathway (P00026)	21	1.00
Beta1 adrenergic receptor signaling pathway (P04377)	16	3.86×10^{-1}
JAK/STAT signaling pathway (P00038)	15	6.16×10^{-1}
Apoptosis signaling pathway (P00006)	13	4.12×10^{-1}
p38 MAPK pathway (P05918)	13	8.20×10^{-1}
Heterotrimeric G-protein signaling pathway-Gq alpha and Go alpha mediated pathway (P00027)	5	3.86×10^{-1}
FGF signaling pathway (P00021)	5	1.45×10^{-1}
PDGF signaling pathway (P00047)	5	1.45×10^{-1}
EGF receptor signaling pathway (P00018)	5	1.45×10^{-1}