

Supplementary Table 1. IC50 (nM) values of 104 inhibitors in ESCC cells

RANKING	INHIBITOR	TARGET	TE7	TE5	KYSE30	KYSE180
1	Elesclomol	HSP70	8	10	9	7
2	Flavopiridol	CDKS	7	6	399	1001
3	Velcade	Proteasome	7	7	196	693
4	BEZ235	PI3K/mTOR	99	33	7	514
5	YM-155	Survivin	45	547	8	42
6	Crenolanib	PDGFR	7	8	4787	9334
7	Dasatinib	Src/ Abl/kit	310	326	800	1000
8	MK-2206	AKT	9	8	10000	10000
9	Ponatinib	Abl, PDGFR α , VEGFR2, FGFR1 and Src	24	115	153	129
10	SNS-032	CDKS	1623	1623	310	408
11	Sunitinib	VEGFR/PDGFR	520	918	1000	1000
12	Vismodegib	Hedgehog	7	6	10000	10000
13	BI-2536	PLK1	1821	1906	693	3163
14	17-AAG	HSP90	1515	5496	2090	1446
15	A-674563	AKT	3632	3891	709	1073
16	AT7519	CDKS	2400	3021	183	538
17	Foretinib	HGFR/VEGFR	3389	8914	1550	1906
18	H-89	PKA	693	205	10000	10000
19	MGCD-265	VEGFR	340	662	10000	10000
20	Midostaurin	PKC α /VEGFR	18	92	5013	3312
21	PD173955	Bcr-Abl / Src	1863	5496	1231	2952
22	PI-103	PI3K	3891	7944	408	1260
23	Roscovitine	CDKS	1821	1414	10000	10000
24	ABT-737	Bcl family	10000	10000	10000	10000
25	Afatinib	EGFR/HER2	3803	6027	2240	2693
26	Alisertib	Aurora A	10000	10000	4075	10000
27	Arsenic Trioxide	N/A	10000	10000	10000	10000
28	Axitinib	VEGFR, c-kit, PDGFR	10000	10000	10000	10000
29	Azacytidine	DNA methyltransferase	10000	10000	10000	10000
30	AZD1480	JAK1/2	10000	10000	10000	10000
31	Barasertib	Aurora B	10000	10000	10000	10000
32	BMS-345541	IKK	10000	10000	7245	6762
33	Bosutinib	Src/Abl	3716	6762	4787	3632
34	Canertinib	pan-ErbB	8914	5624	10000	2819
35	Carbozantinib	c-MET and VEGFR2	10000	10000	10000	10000

36	Cediranib	VEGFR/ c-kit	10000	8914	4572	8512
37	CHIR-99021	GSK-3 α/β	3632	6027	10000	10000
38	CI-1040	MEK	10000	10000	10000	10000
39	CPI-267203	BET domain	10000	10000	10000	10000
40	Crizotinib	c-Met/ALK	3632	6027	7944	10000
41	CYT387 (momelotinib)	JAK1/2 inhibitor	6608	10000	8129	10000
42	DBZ	Notch γ -secretase	10000	10000	10000	10000
43	Doramapimod	p38 MAPK	10000	10000	10000	10000
44	Dovitinib	FGFR	4075	4468	7763	10000
45	Erlotinib	EGFR	9334	10000	10000	9121
46	GDC-0879	B-Raf	10000	10000	10000	10000
47	GDC-0941	PI3K	4075	4468	3632	2952
48	Gefitinib	EGFR	10000	10000	10000	10000
49	GS-1101	PI3K delta	5249	9551	10000	10000
50	GSK-1838705A	IGF-IR	10000	10000	2952	4787
51	GSK-1904529A	IGF-IR	2189	3163	10000	10000
52	GSK690693	Akt	10000	10000	7763	10000
53	GW-2580	CSF1R/Fms	10000	10000	10000	10000
54	Ibrutinib	BTK	10000	10000	10000	2513
55	Imatinib	v-Abl/PDGFR	10000	10000	10000	10000
56	JAK Inhibitor I	JAK	5496	9551	10000	10000
57	JNJ-28312141	CSF-1R	10000	10000	10000	10000
58	JNJ-38877605	c-Met	10000	10000	10000	10000
59	JNJ-7706621	CDK1/2	10000	10000	1661	6919
60	KI20227	c-fms	10000	10000	10000	10000
61	KU-55933	ATM	10000	10000	10000	10000
62	KW-2449	FLT3/ABL/ABL-T315I	10000	10000	9334	10000
63	Lapatinib	EGFR/HER2	10000	9121	10000	10000
64	Linifanib	VEGFR/PDGFR	10000	10000	10000	7944
65	LY-333531	PKC	10000	10000	10000	10000
66	Masitinib	Kit/PDGFR α/β	10000	10000	10000	10000
67	MLN120B	I κ B Kinase β	5000	5000	5000	5000
68	MLN8054	Aurora A	10000	10000	10000	10000
69	Motesanib	VEGFR	10000	10000	10000	10000
70	Neratinib	HER2 and EGFR	3891	4787	5013	2400
71	NF- κ B Activation Inhibitor	NF- κ B	576	10000	10000	10000
72	Nilotinib	Bcr-Abl	6027	7	10000	10000
73	NVP-ADW742	IGF-1R	10000	10000	2952	10000
74	NVP-TAE684	ALK	8512	7414	1951	10000
75	Pazopanib	VEGFR/PDGFR, FGFR, c-Kit and c-Fms	10000	10000	10000	10000

76	Pelitinib	EGFR	2189	3389	4170	2043
77	PHA-665752	Met	3632	2513	9334	3549
78	PHT-427	Akt/PDPK1	10000	10000	10000	10000
79	PP242	mTOR	4366	3312	852	3891
80	PRT062607	SYK	10000	7587	9551	10000
81	Quizartinib	FLT3	10000	10000	4075	8711
82	RAF265	B-Raf /VEGFR2	10000	8711	10000	2631
83	Rapamycin	mTOR	10000	10000	36	10000
84	Regorafenib	VEGFR/PDGFR β /Kit/ RET/ Raf-1	10000	10000	10000	10000
85	Ruxolitinib	JAK1/2	10000	10000	10000	10000
86	S31-201	Stat3	10000	10000	10000	10000
87	Saracatinib	c-Src/Abl	6027	6167	3163	9334
88	SB-431542	ALK	10000	5249	10000	10000
89	Selumetinib	MEK1	10000	10000	10000	10000
90	SGX-523	Met	10000	10000	8914	10000
91	Sorafenib	Raf/VEGFR/PDGFR	4787	6762	10000	10000
92	STO609	CaM-KK	10000	10000	10000	10000
93	SU11274	c-Met	10000	10000	10000	10000
94	TG100-115	PI3K	10000	10000	10000	10000
95	Tivozanib	VEGFR	10000	10000	4572	10000
96	Tofacitinib	JAK1/2	10000	9121	10000	10000
97	Tozasertib	Aurora/FLT3/ Bcr-Abl	10000	10000	10000	10000
98	Trametinib	MEK1/2	3312	10000	760	10000
99	Vandetanib	VEGFR2	5496	5249	10000	2400
100	Vargatef	VEGFR, FGFR, PDGFR	10000	10000	5013	9334
101	Vatalanib	VEGFR2/KDR	10000	10000	10000	10000
102	Vemurafenib	BRAF	10000	10000	10000	10000
103	VX-745	p38 α / β	10000	10000	10000	10000
104	XAV-939	TNKS1/2	10000	10000	10000	10000