

Table S2. Comparison of K_i / IC_{50} values measured in this study to values reported in the literature

Aurora A:

	K_i (this study)	K_i (Published)	Reference (PMID)	IC_{50} (Published)	Reference (PMID)
VX-680	1.03 nM	1.4 nM 0.6 nM	17705509 (ref. 70) 19447622 (ref. 42)	36 nM	18032922 (ref. 119)
MK-5108	<0.01 nM	0.0155 nM	24403173 (ref. 72)	0.064 nM	20053775 (ref. 56)
MK-8745	0.06 nM			0.6 nM	22293494 (ref. 57)
MLN8054	0.15 nM	0.27 nM 7 nM	20067443 (ref. 71) 26101564 (ref. 49)	4 nM 1.0 nM	17360485 (ref. 48) 19402633 (ref. 59)
MLN8237	0.04 nM	0.3 nM 0.136 nM	26101564 (ref. 49) 24403173 (ref. 72)	1.2 nM	22016509 (ref. 55)
Genentech Aurora Inh 1	0.57 nM			3.4 nM	19402633 (ref. 59)
ZM447439	55.5 nM			0.11 μ M 1 μ M 1 μ M	12719470 (ref. 44) 16912073 (ref. 120) 18032922 (ref. 119)
AZD1152- HQPA	83.8 nM	<1 nM 0.36 nM	17373783 (ref. 46) 17575233 (ref. 47)		
Hesperadin	1.21 nM				
GSK1070916	16.1 nM				

Aurora A-TPX2:

	K_i (this study)	K_i (Published)	Reference (PMID)	IC_{50} (Published)	Reference (PMID)
VX-680	4.55 nM	5.9 nM	17705509 (ref. 70)	15 nM	20624901 (ref. 121)
MK-5108	0.04 nM	2.17 nM	24403173 (ref. 72)		

MK-8745	0.41 nM				
MLN8054	0.80 nM	3.3 nM (AurA Ki = 0.75 nM)	20067443 (ref. 71)		
MLN8237	0.23 nM	1.86 nM	24403173 (ref. 72)		
Genentech Aurora Inh 1	0.24 nM			0.19X AurA	19402633 (ref. 59)
ZM447439	336.8 nM			360 nM	20624901 (ref. 121)
AZD1152- HQPA	351.9 nM				
Hesperadin	1.37 nM			11 nM	20624901 (ref. 121)
GSK1070916	130.2 nM	492 nM	19284385 (ref. 61)		

Aurora B:

	K_i (this study)	K_i (Published)	Reference (PMID)	IC₅₀ (Published)	Reference (PMID)
VX-680	1.11 nM	1.8 nM	19447622 (ref. 42)	18 nM 31 nM	18032922 (ref. 119) 20624901 (ref. 121)
MK-5108	1.49 nM			14.1 nM	20053775 (ref. 56)
MK-8745	66.8 nM			280 nM	22293494 (ref. 57)
MLN8054	1.65 nM	(6X AurA)	20067443 (ref. 71)	172 nM 9.3 nM	17360485 (ref. 48) 19402633 (ref. 59)
MLN8237	1.10 nM			396.5 nM	22016509 (ref. 55)
Genentech Aurora Inh 1	156.2 nM			3.4 µM	19402633 (ref. 59)
ZM447439	1.83 nM			51 nM 0.13 µM 50 nM 50 nM	20624901 (ref. 121) 12719470 (ref. 44) 16912073 (ref. 120) 18032922 (ref. 119)

AZD1152-HQPA	0.02 nM	<1 nM 0.36 nM	17373783 (ref. 46) 17575233 (ref. 47)		
Hesperadin	0.03 nM			3 nM 250 nM	20624901 (ref. 121) 12707311 (ref. 45)
GSK1070916		0.38 nM	19284385 (ref. 61)		

SUPPLEMENTAL REFERENCES

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