

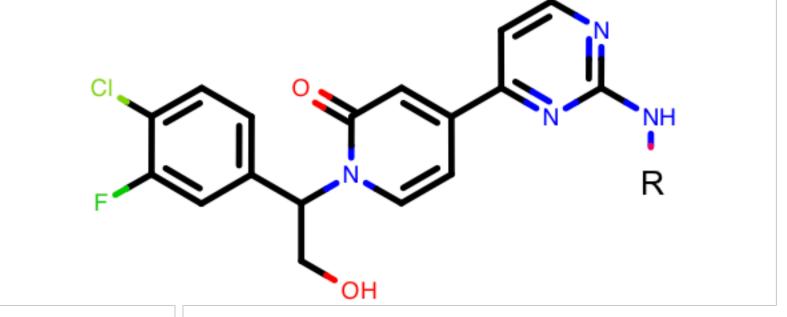
Charged (negative) Charged (positive)

Glycine Hydrophobic

Q 105 D 106 L 107 M 108 E 109 T

Polar→ H-bond

Pi-cationSolvent exposure



Li	gand		ΔG CDK2 (kcal/mol)	ΔG ERK2 (kcal/mol)	ΔΔG (kcal/mol)
	6	\bigcirc	-10.57	-12.21	-1.64
	10		-9.87	-11.44	-1.57
	11		-8.71	-10.28	-1.57
	12	N	-8.86	-11.22	-2.36
	13		-8.44	-10.41	-1.97
	14		-8.69	-11.06	-2.37
	15		-10.36	-11.92	-1.56
	16		-9.57	-10.91	-1.34
	17	NH	-9.86	-12.33	-2.47

Ligand		ΔG CDK2 (kcal/mol)	ΔG ERK2 (kcal/mol)	ΔΔG (kcal/mol)
18	NH NH	-8.28	-9.03	-0.75
21	·	-7.82	-10.13	-2.31
22		-9.69	-11.6	-1.91
23		-7.86	-10.63	-2.77
24	N	-8.98	-10.75	-1.77
25	N N	-7.87	-9.61	-1.74
26		-8.92	-10.59	-1.67
27		-8.01	-8.6	-0.59
28	F N	-8.76	-9.93	-1.17