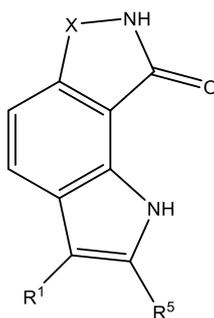


Molecular structures of cdc2-like kinases in complex with a new inhibitor chemotype

Anne Walter, Apirat Chaikuad, Renate Helmer, Nadège Loaëc, Lutz Preu, Ingo Ott, Stefan Knapp, Laurent Meijer, Conrad Kunick

Supporting information

S1 Table: Results from a screening campaign^a towards new CLK inhibitors. Residual enzyme activity [% ± SEM] in the presence of 6,7-dihydropyrrolo[3,4-g]indol-8(1*H*)-ones at 10 μM concentration^b



8a, S18a-e X: CH₂
S19 X: C=O

	R ¹	R ⁵	CDK1/ cyclin B	CDK2/ cyclin A	CDK5/ p25	CDK9/ cyclin T	CK1	CLK 1	CLK 2	CLK 3	CLK 4	DYRK 1A	DYRK 1B	DYRK 2	DYRK 3	GSK3
8a	Phe	H	71±21	101±6	107±20	85±5	91±4	8±2	14±3	78±9	2±0	61±12	51±9	69±15	102±13	111±19
S18a	CH ₃	C ₂ H ₅	94±13	99±8	100±9	93±5	50±6	20±2	31±4	92±12	7±2	54±1	46±8	42±12	65±9	97±3
S18b	CH ₃	CH ₃	93±26	103±2	111±18	104±7	75±3	92±8	63±17	104±14	48±6	82±5	77±11	61±4	89±8	135±18
S18c	CH ₃	Ph	77±26	109±8	105±11	89±6	57±5	29±4	30±1	93±9	10±0	58±7	50±7	57±25	91±17	112±2
S18d	C ₂ H ₅	Ph	109±30	104±2	112±11	100±10	86±3	66±3	66±5	110±16	38±3	74±14	65±8	50±6	87±5	111±7
S18e	CH ₃	4-CH ₃ -Ph	100±20	102±9	114±11	101±3	84±7	105±12	77±6	105±10	64±9	99±16	85±7	75±11	92±9	120±31
S19	CH ₃	CH ₃	81±27	108±8	94±4	90±5	65±5	52±10	33±7	91±11	21±1	41±8	39±5	20±5	57±3	51±5

^a Compounds **8a**, **S18a-e** and **S19** were part of an in-house inventory.

^b SEM = standard error of the mean