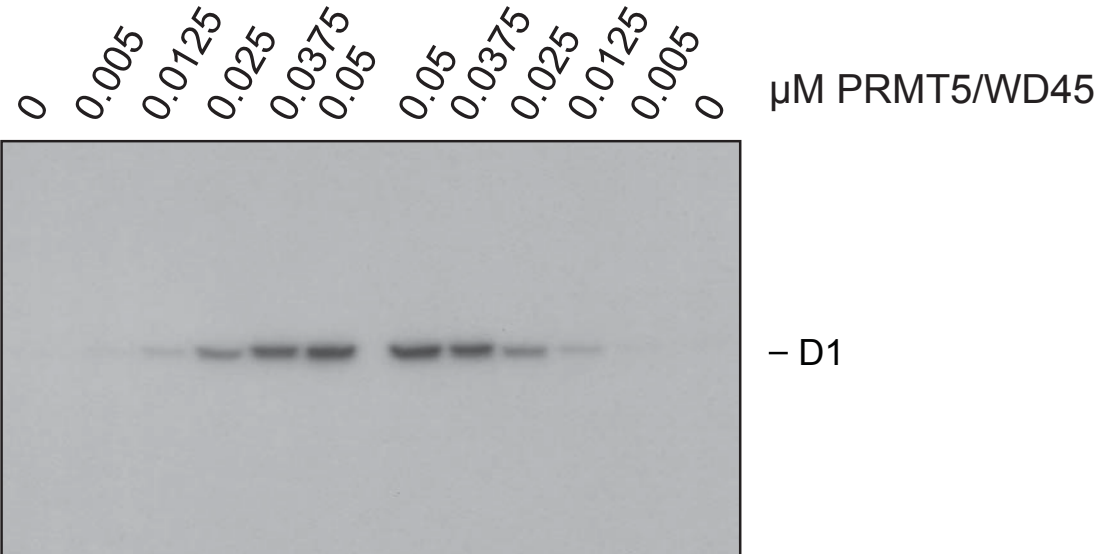


Autoradiographies used for graph 4A

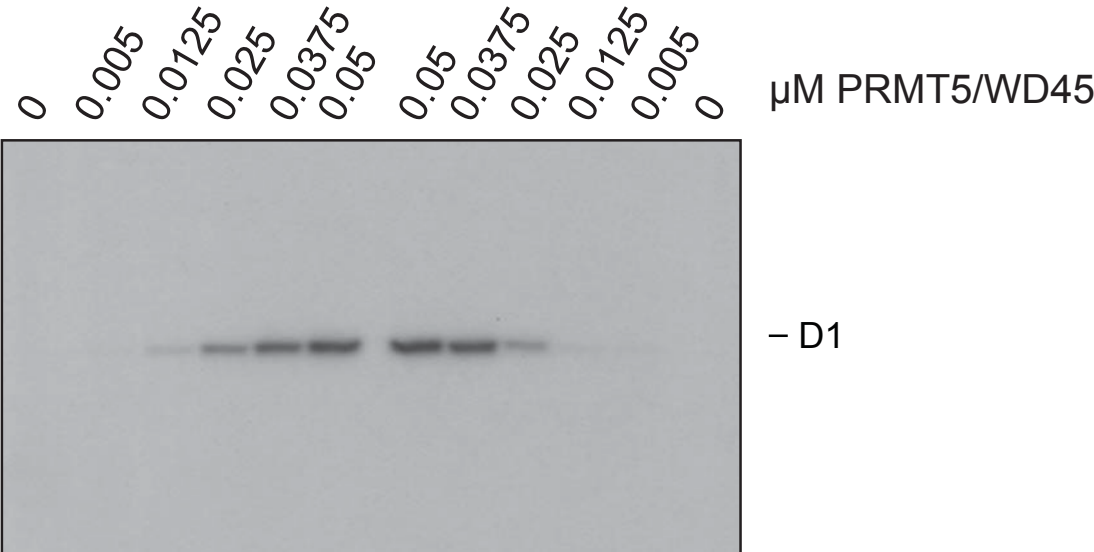
PRMT5/WD45 titration

substrate: pICln/D1/D2



PRMT5/WD45 titration

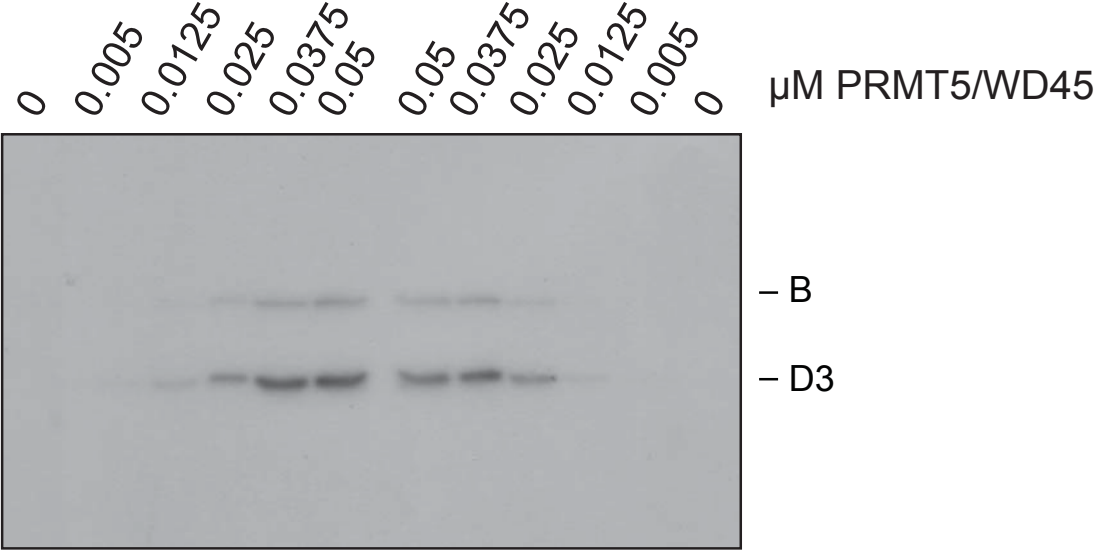
substrate: 6S (pICln/D1/D2/F/E/G)



Autoradiographies used for graph 4A

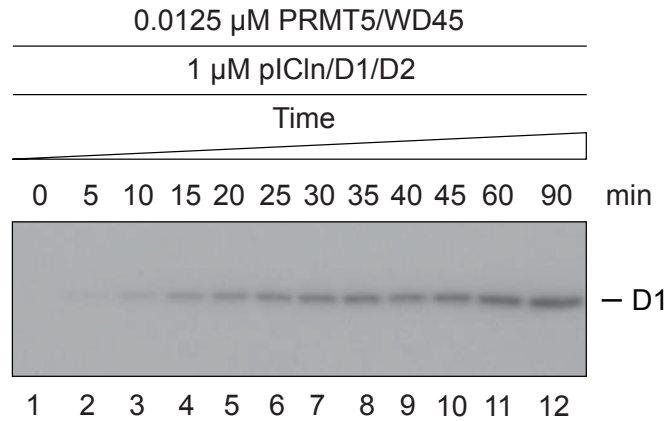
PRMT5/WD45 titration

substrate: pICln/D3/B

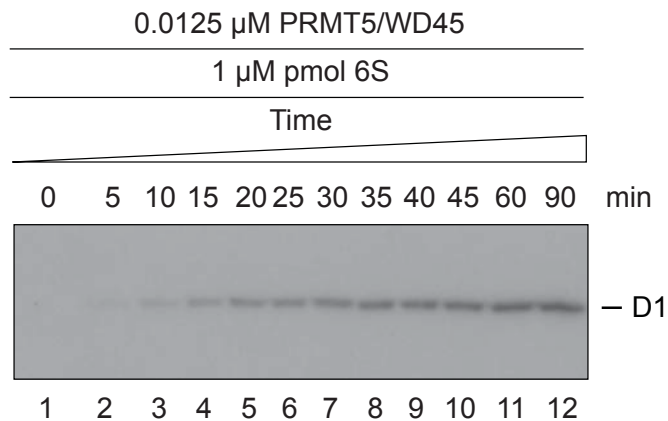


Autoradiographies used for graph 4B

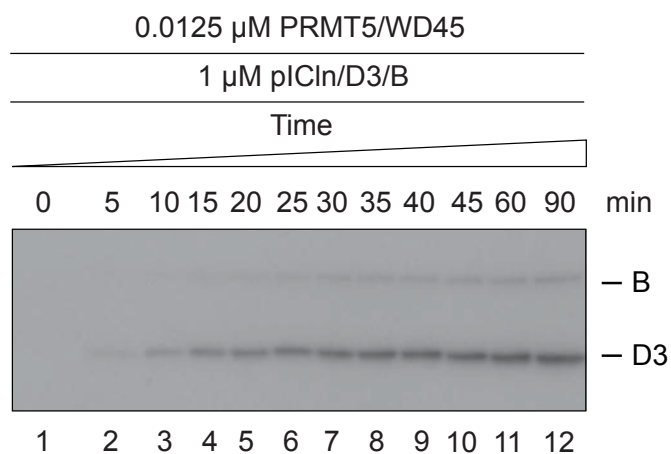
Substrate: pICln/D1/D2



Substrate: 6S (pICln/D1/D2/F/E/G)

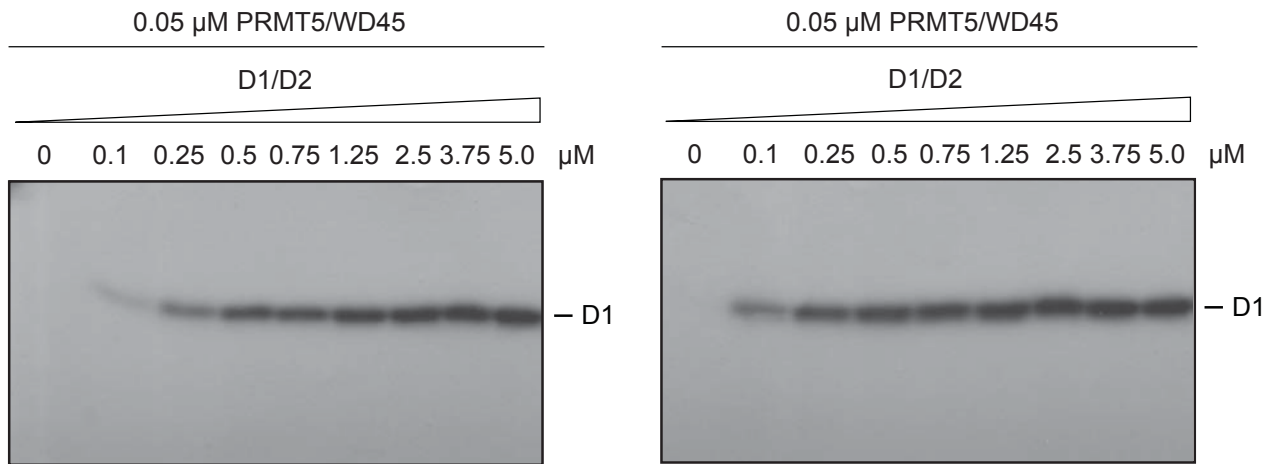


Substrate: pICln/D3/B

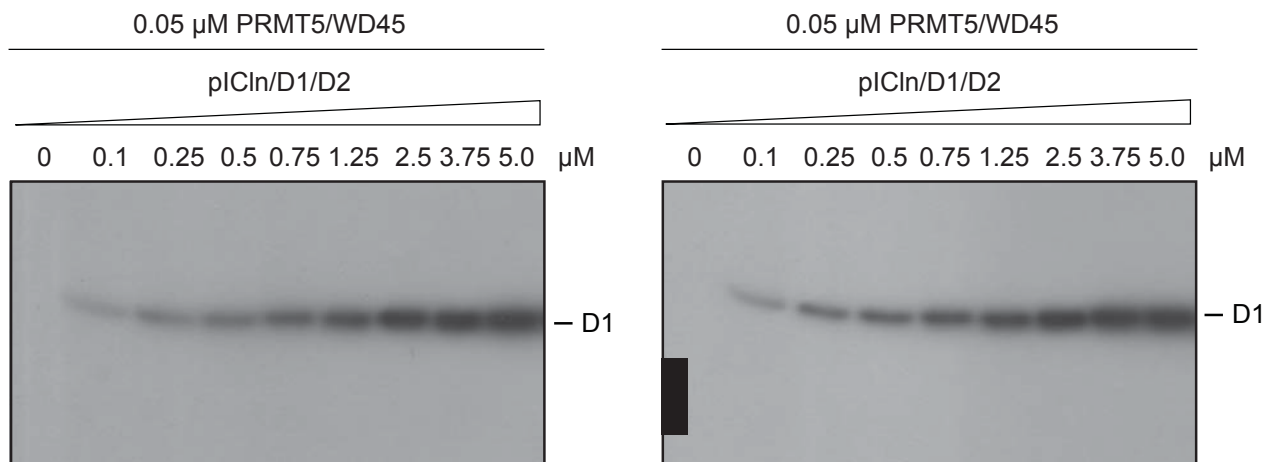


Autoradiographies used for graph 4C

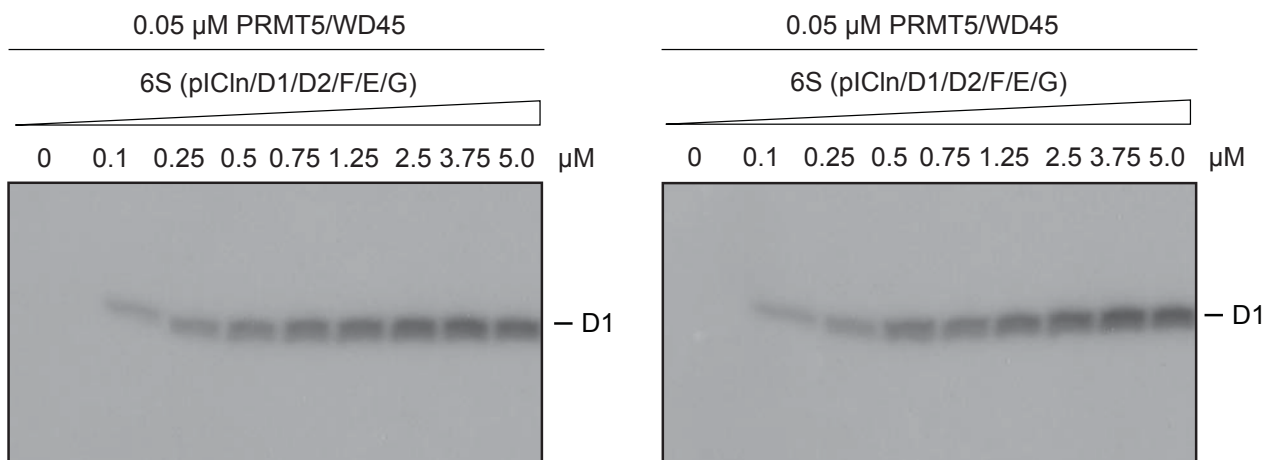
Substrate: D1/D2



Substrate: pICln/D1/D2

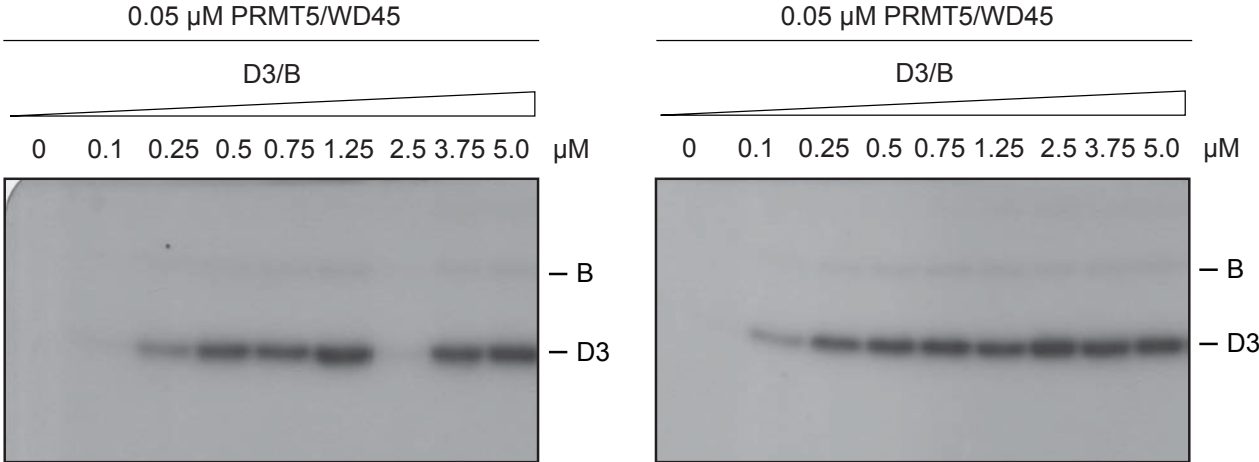


Substrate: 6S (pICln/D1/D2/F/E/G)

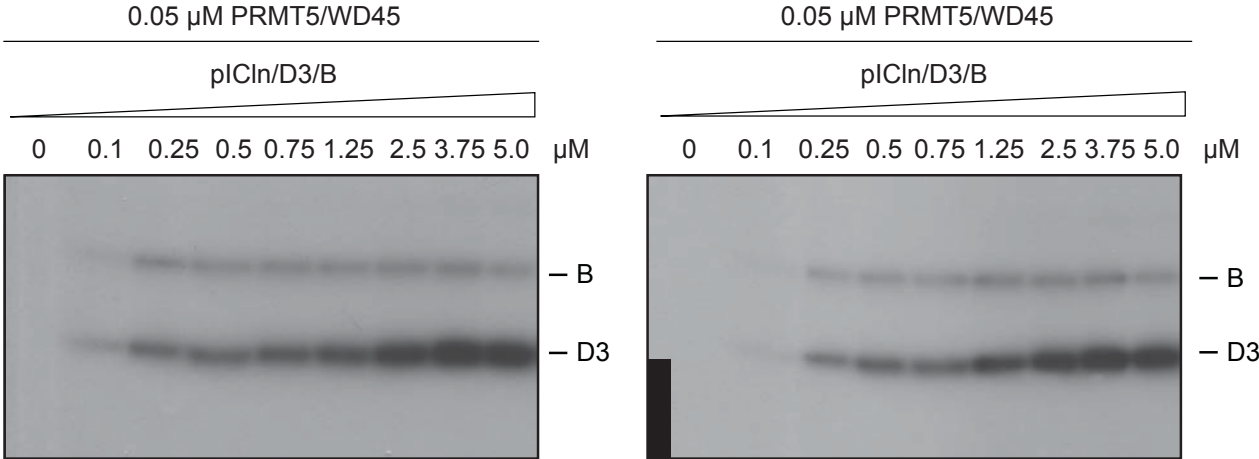


Autoradiographies used for graph 4D

Substrate: D3/B



Substrate: pICln/D3/B



Supplementary Figure 4A - Source Data

Data highlighted in yellow are shown in Figure 4A

Tab. 1 - D1 methylation in pICln/D1/D2

PRMT5/WD45		Densitometric values				Methylation activity (pmol min ⁻¹)			
pmol	μM	Rep. 1	Rep. 2	Average	STERR	Rep. 1	Rep. 2	Average	STERR
0	0	0	0	0	0	0	0	0	0
0.1	0.005	81.13725	95.61176	88.37451	7.237255	0.030499	0.03594	0.033219	0.00272
0.25	0.0125	203.9882	224.2039	214.0961	10.10784	0.076678	0.084277	0.080477	0.003799
0.5	0.025	487.8549	519.4314	503.6431	15.78824	0.183381	0.195251	0.189316	0.005935
0.75	0.0375	881.498	947.7333	914.6157	33.11765	0.331349	0.356247	0.343798	0.012449
1	0.05	1138.212	1157.839	1148.025	9.813725	0.427846	0.435224	0.431535	0.003689

Tab. 2 - D1 methylation in 6S (pICln/D1/D2/F/E/G)

PRMT5/WD45		Densitometric values				Methylation activity (pmol min ⁻¹)			
pmol	μM	Rep. 1	Rep. 2	Average	STERR	Rep. 1	Rep. 2	Average	STERR
0	0	0	0	0	0	0	0	0	0
0.1	0.005	12.29412	49.28235	30.78824	18.49412	0.004621	0.018525	0.011573	0.006952
0.25	0.0125	132.1176	82.34118	107.2294	24.88824	0.049662	0.030951	0.040307	0.009355
0.5	0.025	410.4196	365.0824	387.751	22.66863	0.154274	0.137232	0.145753	0.008521
0.75	0.0375	734.051	996.7804	865.4157	131.3647	0.275925	0.374683	0.325304	0.049379
1	0.05	977.1922	1125.525	1051.359	74.16667	0.36732	0.423078	0.395199	0.027879

Tab. 3 - B methylation in pICln/D3/B

PRMT5/WD45		Densitometric values				Methylation activity (pmol min ⁻¹)			
pmol	μM	Rep. 1	Rep. 2	Average	STERR	Rep. 1	Rep. 2	Average	STERR
0	0	0	0	0	0	0	0	0	0
0.1	0.005	96.7098	-17.8314	39.43922	57.27059	0.036353	-0.0067	0.014825	0.021528
0.25	0.0125	82.12157	-32.1804	24.97059	57.15098	0.030869	-0.0121	0.009386	0.021483
0.5	0.025	134.9412	39.34902	87.1451	47.79608	0.050723	0.014791	0.032757	0.017966
0.75	0.0375	263.5451	205.4314	234.4882	29.05686	0.099065	0.07722	0.088143	0.010922
1	0.05	262.0078	183.8863	222.9471	39.06078	0.098487	0.069122	0.083804	0.014683

Tab. 4 - D3 methylation in pICln/D3/B

PRMT5/WD45		Densitometric values				Methylation activity (pmol min ⁻¹)			
pmol	μM	Rep. 1	Rep. 2	Average	STERR	Rep. 1	Rep. 2	Average	STERR
0	0	0	0	0	0	0	0	0	0
0.1	0.005	46.28627	-74.7647	-14.2392	60.52549	0.017399	-0.0281	-0.00535	0.022751
0.25	0.0125	87.72941	-57.6314	15.04902	72.68039	0.032977	-0.02166	0.005657	0.02732
0.5	0.025	253.7373	197.6157	225.6765	28.06078	0.095378	0.074282	0.08483	0.010548
0.75	0.0375	740.6863	581.7647	661.2255	79.46078	0.278419	0.218681	0.24855	0.029869
1	0.05	783.4902	499.6471	641.5686	141.9216	0.294509	0.187814	0.241161	0.053347

Densitometric conversion factor	2.26E-02	Converts gray scale intensity to pmol per hour
	3.76E-04	Converts unit to per minute

Supplementary Figure 4B - Source Data

Data highlighted in yellow are shown in Figure 4B

Time min	Densitometric values			
	D1 in pICln/D1/D2	D1 in 6S	B in pICln/D3/B	D3 in pICln/D3/B
0	0	0	0	0
5	103.53	129.84	13.25331654	214.2154689
10	250.25	245.58	23.64057179	446.1926256
15	483.77	401.91	103.4748333	748.0721481
20	625.32	590.27	160.4001135	959.9035187
25	743.45	641.64	241.654104	1126.724337
30	910.07	813.54	320.3289054	1322.116647
35	1001.75	953.30	374.3504363	1503.545775
40	927.61	1001.46	371.034336	1587.628139
45	1112.07	1164.81	417.9572219	1628.872552
60	1459.47	1377.42	507.241416	1866.690905
90	1869.63	1600.18	592.2123297	2144.322858

Time min	Methylation activity (pmol CH ₃ pmol enzyme ⁻¹)			
	D1 in pICln/D1/D2	D1 in 6S	B in pICln/D3/B	D3 in pICln/D3/B
0	0	0	0	0
5	348.094346	436.54351	44.5615028	720.2546764
10	841.4239188	825.7198316	79.4864744	1500.22931
15	1626.589518	1351.332678	347.9124684	2515.236018
20	2102.521455	1984.667752	539.311808	3227.474662
25	2499.695918	2157.394821	812.5113436	3788.374745
30	3059.90427	2735.348165	1077.038896	4445.340489
35	3368.191274	3205.285595	1258.674986	5055.35796
40	3118.893735	3367.207346	1247.525293	5338.067308
45	3739.114241	3916.431484	1405.293675	5476.743015
60	4907.170949	4631.274556	1705.49309	6276.357448
90	6286.231016	5380.25993	1991.190002	7209.836776

Densitometric conversion factor	2.26E-02	Converts gray scale intensity to pmol
	3.36229	Converts unit to per mg

Supplementary Figure 4C - Source Data

Data highlighted in yellow are shown in Figure 4C

Tab. 1 - D1 methylation in D1/D2

D1/D2		Densitometric values				Methylation activity (pmol C _H pmol enzyme ⁻¹)			
pmol	μM	Rep. 1	Rep. 2	Average	STERR	Rep. 1	Rep. 2	Average	STERR
0	0	0	0	0	0	0	0	0	0
2	0.1	336.102	160.4431	248.2725	87.82941	7.5803	3.6186	5.5994	1.9809
5	0.25	1041.82	1031.6	1036.71	5.109804	23.4968	23.2663	23.3815	0.1152
10	0.5	1562.129	1485.502	1523.816	38.31373	35.2316	33.5034	34.3675	0.8641
15	0.75	1592.298	1769.078	1680.688	88.3902	35.9121	39.8991	37.9056	1.9935
25	1.25	1832.616	1795.624	1814.12	18.49608	41.3321	40.4978	40.9149	0.4172
50	2.5	1984.204	1931.914	1958.059	26.1451	44.7509	43.5716	44.1613	0.5897
75	3.75	2073.843	2025.816	2049.829	24.01373	46.7726	45.6894	46.2310	0.5416
100	5	2082.718	1977.576	2030.147	52.57059	46.9728	44.6015	45.7871	1.1857

Tab. 2 - D1 methylation in pICln/D1/D2

pICln/D1/D2		Densitometric values				Methylation activity (pmol C _H pmol enzyme ⁻¹)			
pmol	μM	Rep. 1	Rep. 2	Average	STERR	Rep. 1	Rep. 2	Average	STERR
0	0	0	0	0	0	0	0	0	0
2	0.1	215.5412	129.0196	172.2804	43.26078	4.8612	2.9099	3.8855	0.9757
5	0.25	731.8667	578.8	655.3333	76.53333	16.5062	13.0540	14.7801	1.7261
10	0.5	1299.984	1017.741	1158.863	141.1216	29.3193	22.9537	26.1365	3.1828
15	0.75	1452.671	1318.675	1385.673	66.99804	32.7630	29.7409	31.2519	1.5110
25	1.25	1400.871	1433.624	1417.247	16.37647	31.5947	32.3334	31.9640	0.3693
50	2.5	1692.667	1527.086	1609.876	82.7902	38.1757	34.4413	36.3085	1.8672
75	3.75	1798.42	1705.714	1752.067	46.35294	40.5608	38.4700	39.5154	1.0454
100	5	1712.431	1726.937	1719.684	7.252941	38.6215	38.9487	38.7851	0.1636

Tab. 3 - D1 methylation in 6S (pICln/D1/D2/F/E/G)

6S		Densitometric values				Methylation activity (pmol C _H pmol enzyme ⁻¹)			
pmol	μM	Rep. 1	Rep. 2	Average	STERR	Rep. 1	Rep. 2	Average	STERR
0	0	0	0	0	0	0	0	0	0
2	0.1	420.9804	454.1255	437.5529	16.57255	9.4946	10.2422	9.8684	0.3738
5	0.25	690.651	668.9686	679.8098	10.84118	15.5767	15.0877	15.3322	0.2445
10	0.5	957.9059	1093.251	1025.578	67.67255	21.6042	24.6567	23.1305	1.5263
15	0.75	1167.322	1064.651	1115.986	51.33529	26.3273	24.0117	25.1695	1.1578
25	1.25	1308.804	1290.243	1299.524	9.280392	29.5182	29.0996	29.3089	0.2093
50	2.5	1459.443	1501.663	1480.553	21.1098	32.9157	33.8679	33.3918	0.4761
75	3.75	1523.043	1733.29	1628.167	105.1235	34.3501	39.0919	36.7210	2.3709
100	5	1431.169	1614.792	1522.98	91.81176	32.2780	36.4194	34.3487	2.0707

Densitometric conversion factor	2.26E-02	Converts unit to per mg
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Supplementary Figure 4D - Source Data

Data highlighted in yellow are shown in Figure 4D

Tab. 1 - B methylation in D3/B

D3/B		Densitometric values				Methylation activity (pmol C _H pmol enzyme ⁻¹)			
pmol	μM	Rep. 1	Rep. 2	Average	STERR	Rep. 1	Rep. 2	Average	STERR
0	0	0	0	0	0	0	0	0	0
2	0.1	40.3098	7.247059	23.77843	16.53137	0.9091	0.1634	0.5363	0.3728
5	0.25	242.2588	112.2431	177.251	65.00784	5.4638	2.5315	3.9976	1.4662
10	0.5	308.251	212.0667	260.1588	48.09216	6.9522	4.7829	5.8675	1.0847
15	0.75	299.8235	255.5882	277.7059	22.11765	6.7621	5.7644	6.2633	0.4988
25	1.25	407.7451	277.6275	342.6863	65.05882	9.1961	6.2615	7.7288	1.4673
50	2.5	274.9725	274.9725	274.9725	0	6.2016	6.2016	6.2016	0.0000
75	3.75	294.8	249.9255	272.3627	22.43725	6.6488	5.6367	6.1428	0.5060
100	5	309.8784	265.9255	287.902	21.97647	6.9889	5.9976	6.4932	0.4956

Tab. 2 - D3 methylation in D3/B

D3/B		Densitometric values				Methylation activity (pmol C _H pmol enzyme ⁻¹)			
pmol	μM	Rep. 1	Rep. 2	Average	STERR	Rep. 1	Rep. 2	Average	STERR
0	0	0	0	0	0	0	0	0	0
2	0.1	13.92389	2.503294	8.213594	5.7103	0.3140	0.0565	0.1852	0.1288
5	0.25	83.68153	38.77125	61.22639	22.45514	1.8873	0.8744	1.3809	0.5064
10	0.5	106.4767	73.2525	89.86459	16.61209	2.4014	1.6521	2.0268	0.3747
15	0.75	103.5656	88.2858	95.92573	7.639922	2.3358	1.9912	2.1635	0.1723
25	1.25	140.8441	95.89863	118.3714	22.47275	3.1765	2.1629	2.6697	0.5068
50	2.5	94.98157	94.98157	94.98157	0	2.1422	2.1422	2.1422	0.0000
75	3.75	101.8304	86.32977	94.08009	7.750322	2.2966	1.9470	2.1218	0.1748
100	5	107.0388	91.85652	99.44768	7.591157	2.4141	2.0717	2.2429	0.1712

Tab. 3 - B methylation in pICln/D3/B

pICln/D3/B		Densitometric values				Methylation activity (pmol C _H pmol enzyme ⁻¹)			
pmol	μM	Meas.1	Meas.2	Average	STERR	Rep. 1	Rep. 2	Average	STERR
0	0	0	0	0	0	0	0	0	0
2	0.1	127.9961	-169.78	-20.8922	148.8882	2.8868	-3.8292	-0.4712	3.3580
5	0.25	329.9843	44.39608	187.1902	142.7941	7.4423	1.0013	4.2218	3.2205
10	0.5	342.9804	262.4314	302.7059	40.27451	7.7354	5.9188	6.8271	0.9083
15	0.75	356.5922	358.3255	357.4588	0.866667	8.0424	8.0815	8.0620	0.0195
25	1.25	365.7922	519.949	442.8706	77.07843	8.2499	11.7267	9.9883	1.7384
50	2.5	407.2824	513.5373	460.4098	53.12745	9.1857	11.5821	10.3839	1.1982
75	3.75	391.1765	551.3451	471.2608	80.08431	8.8224	12.4348	10.6286	1.8062
100	5	302.3882	447.0549	374.7216	72.33333	6.8199	10.0827	8.4513	1.6314

Tab. 4 - D3 methylation in pICln/D3/B

pICln/D3/B		Densitometric values				Methylation activity (pmol C _H pmol enzyme ⁻¹)			
pmol	μM	Rep. 1	Rep. 2	Average	STERR	Rep. 1	Rep. 2	Average	STERR
0	0	0	0	0	0	0	0	0	0
2	0.1	309.8314	91.06667	200.449	109.3824	6.9878	2.0539	4.5208	2.4670
5	0.25	768.6	676.8588	722.7294	45.87059	17.3347	15.2656	16.3002	1.0345
10	0.5	900.9294	1214.369	1057.649	156.7196	20.3192	27.3884	23.8538	3.5346
15	0.75	1137.306	1301.584	1219.445	82.13922	25.6503	29.3554	27.5029	1.8525
25	1.25	1371.541	1817.58	1594.561	223.0196	30.9332	40.9930	35.9631	5.0299
50	2.5	1797.733	2127.98	1962.857	165.1235	40.5454	47.9936	44.2695	3.7241
75	3.75	2129.965	2399.792	2264.878	134.9137	48.0384	54.1240	51.0812	3.0428
100	5	2024.741	2328.408	2176.575	151.8333	45.6652	52.5140	49.0896	3.4244

Densitometric conversion factor	2.26E-02	Converts gray scale intensity to pmol
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For a detailed description of the densitometric analysis see: _____

Nils Neuenkirchen (2012) An *in vitro* system for the biogenesis of small nuclear ribonucleoprotein particles, PhD Thesis

urn:nbn:de:bvb:20-opus-71300