

Suppl. Table 1. Cytostatic activity of 3F-3DUrd, 3DUrd and other antimetabolic drugs in tumor cell cultures

Compound	IC ₅₀ ^a (μM)							
	L1210	FM3A	CEM	MCF-7	PC-3	OST TK ⁻	HeLa	HEL
3F-3DUrd	16 ± 1.4	89 ± 52	19 ± 8.6	123 ± 45	120 ± 7.1	53 ± 28	32 ± 5.0	47 ± 18
3DUrd	2.0 ± 0.6	18 ± 4.2	7.4 ± 3.1	4.7 ± 0.7	20 ± 2.1	5.5 ± 0.2	4.8 ± 2.2	15 ± 4.9
Pyrazofurin	0.07 ± 0.003	0.15 ± 0.05	0.24 ± 0.09	0.12 ± 0.05	0.054 ± 0.004	0.061 ± 0.005	≤ 0.060 ± 0.006	0.04 ± 0.03
6AUrd	0.17 ± 0.007	0.43 ± 0.16	0.63 ± 0.28	0.09 ± 0.06	5.7 ± 1.2	0.017 ± 0.005	0.10 ± 0.05	6.3 ± 2.4
K-Oxonate	152 ± 8.5	>200	≥204 ± 43	>200	> 200	98 ± 82	>200	> 200
A771726	6.3 ± 2.4	12 ± 1.2	28 ± 13	22 ± 5.4	65 ± 11	23 ± 1.4	42 ± 20	63 ± 0.71

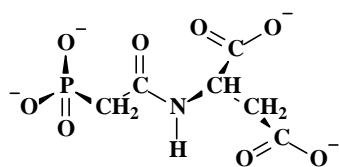
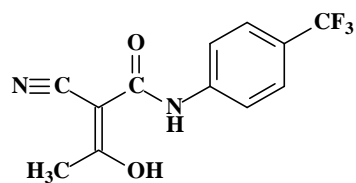
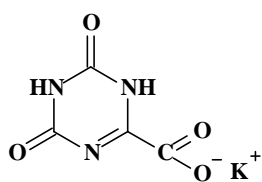
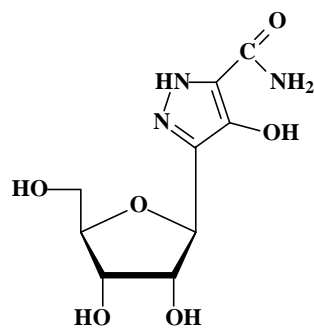
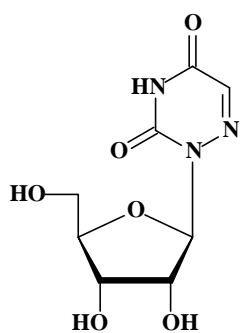
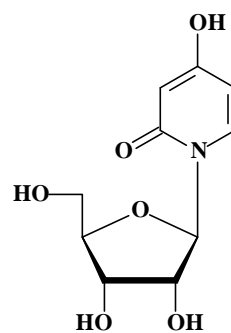
^a50% Inhibitory concentration or compound concentration required to inhibit tumor cell proliferation by 50%.

Legends to the Supplementary Figures

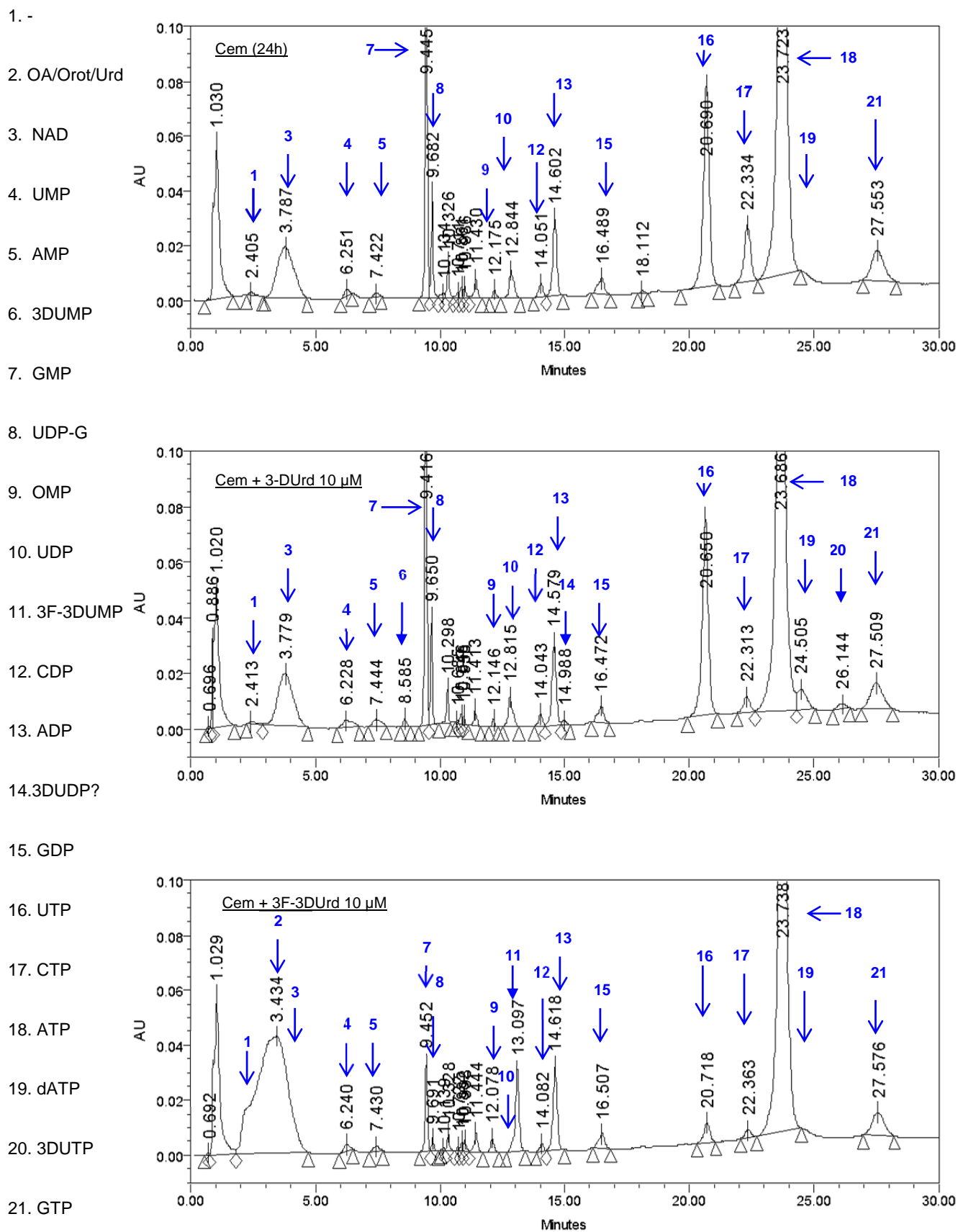
Suppl. Fig. 1. Structural formulae of known antimetabolite drugs of the pyrimidine nucleotide metabolism.

Suppl. Fig. 2. HPLC chromatograms of 3DUrd- and 3F-3DUrd-treated and untreated CEM cell cultures. Exponentially growing CEM cell cultures were exposed to 10- μ M 3DUrd, 3F-3DUrd or no drug for 24 hrs.

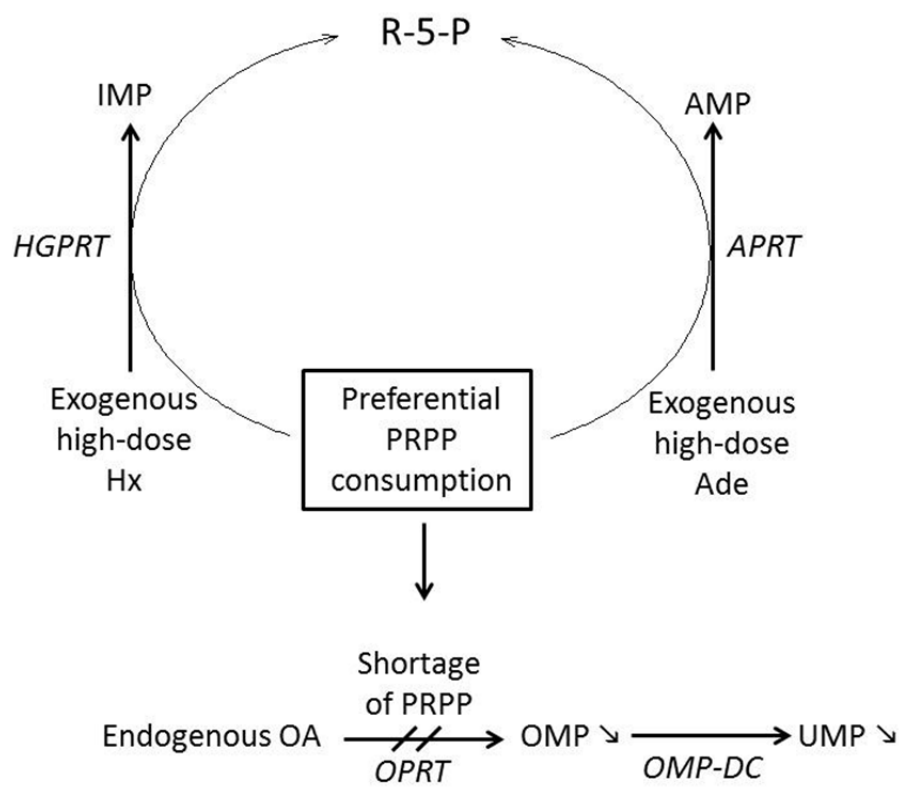
Suppl. Fig. 3. Proposed mechanism of increased cytostatic activity by the addition of hypoxanthine/adenine to 3F-3DUrd-exposed CEM tumor cell cultures.

**PALA****A771726****K-oxonate****Pyrazofurin (Pyr)****6-azaUridine (6AUrd)****3-deazaUridine (3DUrd)**

Suppl. Fig. 1.



Suppl. Fig. 2



Suppl. Fig. 3