

Table 1. Average concentrations of purines and pyrimidines

Purine compound	Concentration ( $\mu\text{M}$ )		Pyrimidine compound	Concentration ( $\mu\text{M}$ )	
	Human	General		Human	General
adenine	0.4	2.7 $\pm$ 2.2	cytosine	<i>1.5</i>	6.4 $\pm$ 8.5
adenosine	0.5	3.1 $\pm$ 2.2	cytidine	<i>0.6</i>	4.7 $\pm$ 2.7
AMP	82	209 $\pm$ 176	CMP	67	34 $\pm$ 19
ADP	137	849 $\pm$ 367	CDP	0.8	71 $\pm$ 51
ATP	2,102	3,152 $\pm$ 1,698	CTP	91	278 $\pm$ 243
guanine	97	<i>0.4</i>	uracil	<i>1.3</i>	5.8 $\pm$ 8.3
guanosine	<i>0.9</i>	4.5 $\pm$ 2.9	uridine	5.2	10.4 $\pm$ 8.7
GMP	32	64 $\pm$ 39	UMP		184 $\pm$ 127
GDP	36	159 $\pm$ 51	UDP	3.5	155 $\pm$ 113
GTP	305	468 $\pm$ 224	UTP	253	567 $\pm$ 460
hypoxanthine	172	570 $\pm$ 483	orotate	<5	0.4
inosine	168	5.0 $\pm$ 6.3	orotidine	13	149
IMP	23	63 $\pm$ 41	OMP		8.0
xanthine	20	25	thymine		2.4
XMP	7.3	3.8	deoxythymidine	<i>0.5</i>	4.9 $\pm$ 5.2
			dTMP	1.4	0.5
			dTDP	2.4	1.5
			dTTP	17	37 $\pm$ 30
			deoxycytidine	<i>0.7</i>	14
dAMP		21	dCMP	1.9	0.3
dATP	2.4	24 $\pm$ 22	dCDP	0.1	1.0
			dCTP	4.5	29 $\pm$ 19
			deoxyuridine	<i>0.6</i>	0.6
dGMP		9.1	dUMP	2.7	2.2
			dUDP	0.5	0.1
dGTP	2.7	5.2 $\pm$ 4.5	dUTP	0.7	0.2 $\pm$ 0.2

Values in italics were determined solely in extracellular fluids.