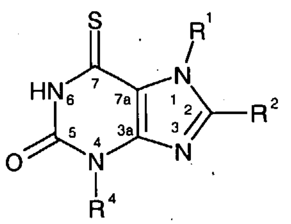
NMR spectra were recorded using DMSO-d_6 as solvent. The chemical shifts of the remaining protons of the deuterated solvent served as internal standard: δ (ppm) ^{1}H: 2.50; ^{13}C: 39.1.

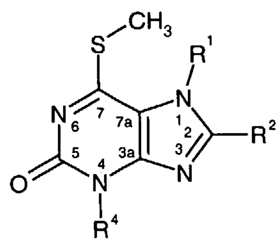
e 1. ^{1}H NMR data of the synthesized 6-thioxanthines



12

pd	R^1	R^2	R^4	N6-H
a	4.14 (s, 3 H, CH_3)	8.22 (s, 1H, H)	3.45 (s, 3 H, CH_3)	12.33 (s, 1H, NH)
b	13.61 (s, 1 H, NH)	8.15 (s, 1 H, H)	5.16 (s, 2 H, CH_2); 7.2-7.4 (m, 5 H, ar)	12.45 (s, 1H, NH)
c	4.00 (s, 3 H, CH_3)	8.06 (s, 1 H, H)	12.18 (s, 1H, NH)	11.96 (s, 1H, NH)
d	13.75 (s, NH)	7.4-7.6 (m, 2 H, ar); 8.1-8.3 (m, 2 H, ar)	3.49 (s, 3 H, CH_3)	12.28 (s, 1H, NH)
e	4.14 (s, 3 H, CH_3)	7.4-7.7 (m, 2 H, ar); 7.7-7.9 (m, 2 H, ar)	12.02 (s, 1H, NH)	12.33 (s, 1H, NH)
f	4.17 (s, 3 H, CH_3)	7.3-7.6 (m, 2 H, ar); 7.7-7.9 (m, 2 H, ar)	3.43 (s, 3 H, CH_3)	12.27 (s, 1H, NH)
g	13.48 (s, 1 H, NH)	7.11 (d, ^3J=16 Hz, 1H, C=C-H); 7.30-7.66 (m, 5 H, Har); 7.79 (d, ^3J= 16 Hz, 1 H, C=C-H)	3.47 (s, 3 H, CH_3)	12.24 (s, 1H, NH)
h	4.27 (s, 3 H, CH_3)	7.3-7.5 (m, 4 H, C=C-H + ar); 7.7-7.85 (m, 3 H, C=C-H + ar)	3.42 (s, 3 H, CH3)	12.14 (s, 1H, NH)

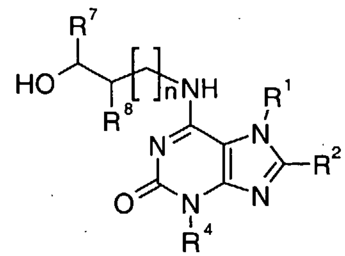
e 2. ^{1}H NMR data of the synthesized 6-methylsulfanylxanthines



13

pd	R^1	R^2	R^4	S-CH_3
a	4.02 (s, 3 H, CH_3)	8.19 (s, 1H, H)	3.52 (s, 3 H, CH_3)	2.66 (s, 3 H, CH_3)
b		8.11 (s, 1 H, H)	5.20 (s, 2 H, CH_2); 7.2-7.4 (m, 5 H, ar)	2.59 (s, 3 H, CH_3)
c	3.93 (s, 3 H, CH_3)	8.04 (s, 1 H, H)	13.53 (s, 1H, NH)	2.56 (s, 3 H, CH_3)
d	13.50 (s, NH)	7.5-7.6 (m, 2 H, ar); 8.1-8.3 (m, 2 H, ar)	3.55 (s, 3 H, CH_3)	2.66 (s, 3 H, CH_3)
e	3.50 (s, 3 H, CH_3)		13.40 (s, 1H, NH)	2.60 (s, 3 H, CH_3)
f	3.96 (s, 3 H, CH_3)	7.3-7.6 (m, 2 H, ar); 7.7-7.9 (m, 2 H, ar)	3.59 (s, 3 H, CH_3)	2.68 (s, 3 H, CH_3)
g		7.3-7.5 (m, 4 H, C=C-H + ar); 7.7-7.85 (m, 3 H, C=C-H + ar)	3.49 (s, 3 H, CH_3)	2.59 (s, 3 H, CH_3)
h	4.12 (s, 3 H, CH_3)	7.30-7.40 (m, 3 H, ar); 7.45-7.60 (m, 2 H, ar)		2.65 (s, 3 H, CH_3)

3. [1]H NMR data of the synthesized 6-hydroxyalkylamino-substituted xanthine derivatives



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d	n	R^1	R^2	R^4	R^7	R^8	NMR-shifts: R^1	R^2	R^4	N10-H	OH	further signals
	0	CH_3	H	H	H	H	3.91 (s, 3 H, CH_3)	7.87 (s, 1 H, CH)	-	7.46	4.93	3.40-3.60 (m, 4 H CH_2-CH_2)
	0	CH_3	H	benzyl	H	H	3.92 (s, 3 H, CH_3)	7.87 (s, 1 H, CH)	5.11 (s, 2 H, CH_2); 7.1-7.3 (m, 5 H, ar)	7.00	4.91	3.40-3.60 (m, 4 H CH_2-CH_2)
	0	CH_3	H	CH_3	H	H	4.00 (s, 3 H, CH_3)	7.95 (s, 1 H, CH)	3.41 (s, 3 H, CH_3)	7.00 (t, ^3J= 5.5 Hz)	4.98 (t, ^3J= 5.5 Hz)	3.50-3.70 (m, 4 H CH_2-CH_2)
1	0	CH_3	H	CH_3	H	CH_3	3.95 (s, 3 H, CH_3)	7.88 (s, 1 H, CH)	3.34 (s, 3 H, CH_3)	6.22 (d, ^3J= 8.1 Hz)	4.87 (t, ^3J= 5.5 Hz)	1.18 (d, ^3J= 6.8 Hz CH_3); 3.30-3.60 (n 2 H, CH_2); 4.20-4.4 (m, 1 H, CH)
	0	CH_3	H	CH_3	H	CH_3	3.94 (s, 3 H, CH_3)	7.89 (s, 1 H, CH)	3.35 (s, 3 H, CH_3)	6.22 (d, ^3J= 8.1 Hz)	4.89 (t, ^3J= 5.5 Hz)	1.18 (d, ^3J= 6.8 Hz CH_3); 3.30-3.60 (n 2 H, CH_2); 4.20-4.4 (m, 1 H, CH)
e	0	CH_3	H	CH_3	H	C_2H_5	3.95 (s, 3 H, CH_3)	7.88 (s, 1 H, CH)	3.33 (s, 3 H, CH_3)	6.15 (d, ^3J= 8.0 Hz)	4.88 (t, ^3J= 5.3 Hz)	0.90 (t, 3 H, ^3J= 7. Hz, CH_2-C$\underline{H_3}$); 1.5 1.71 (m, 2 H, C$\underline{H_2}$ CH_3); 3.40-3.55 (m 2 H, C$\underline{H_2}$-OH); 4.0 4.21 (m, 1 H, C$\underline{H}$-I

0	CH_3	H	CH_3	H	C_2H_5	3.85 (s, 3 H, CH_3)	7.89 (s, 1 H, CH)	3.42 (s, 3 H, CH_3)	6.15 (d, ^3J= 7.6 Hz)	4.84 (t, ^3J= 5.5 Hz)	0.90 (t, 3 H, ^3J= 7.3 Hz, CH_2-CH_3); 1.52 1.71 (m, 2 H, CH_2-CH_3); 3.40-3.55 (m 2 H, CH_2-OH); 4.09 4.21 (m, 1 H, CH-E
0	CH_3	H	CH_3	H	C_2H_5	3.95 (s, 3 H, CH_3)	7.89 (s, 1 H, CH)	3.36 (s, 3 H, CH_3)	6.15 (d, ^3J= 8.0 Hz)	4.85 (t, ^3J= 5.4 Hz)	0.89 (t, 3 H, ^3J= 7. Hz, CH_2-CH_3); 1.51 1.75 (m, 2 H, CH_2-CH_3); 3.40-3.60 (m 2 H, CH_2-OH); 4.1 4.20 (m, 1 H, CH-E
0	CH_3	H	CH_3	CH_3	H	3.94 (s, 3 H, CH_3)	7.89 (s, 1 H, CH)	3.34 (s, 3 H, CH_3)	6.87 (t, ^3J= 6.2 Hz)	5.01 (t, ^3J= 4.4 Hz)	1.07 (d, 3 H, ^3J= 6. Hz, CH_3); 3.20-3.6 (m, 2 H, CH_2); 3.8 3.90 (m, 1 H, CH)
0	CH_3	H	CH_3	CH_3	H	3.94 (s, 3 H, CH_3)	7.88 (s, 1 H, CH)	3.34 (s, 3 H, CH_3)	6.86 (t, ^3J= 6.1 Hz)	5.02 (t, ^3J= 4.1 Hz)	1.07 (d, 3 H, ^3J= 6. Hz, CH_3); 3.20-3.6 (m, 2 H, CH_2); 3.8 3.90 (m, 1 H, CH)
0	CH_3	H	CH_3	CH_3	H	3.94 (s, 3 H, CH_3)	7.89 (s, 1 H, CH)	3.35 (s, 3 H, CH_3)	6.86 (t, ^3J= 6.2 Hz)	5.01 (t, ^3J= 4.2 Hz)	1.07 (d, 3 H, ^3J= 6. Hz, CH_3); 3.60 (m 2 H, CH_2); 3.80-3. (m, 1 H, CH)
0	CH_3	phenyl	H	H	H	4.11 (s, 3 H, CH_3)	7.40-7.60 (m, 3 H, ar); 7.70-7.90 (m, 2H, ar)	-	6.24 (d, ^3J= 8.1 Hz)	4.80	3.40-3.60 (m, 4 H CH_2-CH_2)
0	CH_3	phenyl	CH_3	H	H	4.18 (s, 3 H, CH_3)	7.40-7.60 (m, 3 H, ar); 7.70-7.90 (m, 2H, ar)	3.53 (s, 3 H, CH_3)	7.30	4.30	3.40-3.60 (m, 4 H CH_2-CH_2)

	0	H	phenyl	CH_3	H	C_2H_5	13.07 (br, 1H, NH)	7.50-7.70 (m, 3 H, ar); 8.05-8.25 (m, 2H, ar)	3.54 (s, 3 H, CH_3)	10.04 (d, ^3J= 8.0 Hz)	4.20	0.95 (t, 3 H, ^3J= 7. Hz, CH_2-CH_3); 1.52 1.71 (m, 2 H, CH_2-CH_3); 3.35-3.65 (m 3 H, CH_2-CH)
	0	H	phenyl	CH_3	H	C_2H_5	13.07 (br, 1H, NH)	7.50-7.70 (m, 3 H, ar); 8.05-8.25 (m, 2H, ar)	3.52 (s, 3 H, CH_3)	10.08 (d, ^3J= 8.0 Hz)	4.20	0.95 (t, 3 H, ^3J= 7. Hz, CH_2-CH_3); 1.52 1.71 (m, 2 H, CH_2-CH_3); 3.35-3.65 (m 3 H, CH_2-CH)
	0	H	phenyl	CH_3	H	C_2H_5	13.07 (br, 1H, NH)	7.50-7.70 (m, 3 H, ar); 8.05-8.25 (m, 2H, ar)	3.49 (s, 3 H, CH_3)	10.02 (d, ^3J= 8.0 Hz)	4.20	0.95 (t, 3 H, ^3J= 7. Hz, CH_2-CH_3); 1.5 1.71 (m, 2 H, CH_2 CH_3); 3.35-3.65 (m 3 H, CH_2-CH)
j	0	CH_3	phenyl	CH_3	H	C_2H_5	3.94 (s, 3 H, CH_3)	7.50-7.65 (m, 3 H, ar); 7.70-7.90 (m, 2H, ar)	3.39 (s, 3 H, CH_3)	6.35 (d, ^3J= 8.0 Hz)	4.20	0.94 (t, 3 H, ^3J= 7. Hz, CH_2-CH_3); 1.5 1.71 (m, 2 H, CH_2-CH_3); 3.35-3.65 (n 3 H, CH_2-CH)
	0	CH_3	phenyl	CH_3	H	C_2H_5	3.95 (s, 3 H, CH_3)	7.50-7.65 (m, 3 H, ar); 7.70-7.90 (m, 2H, ar)	3.38 (s, 3 H, CH_3)	6.35 (d, ^3J= 8.0 Hz)	4.20	0.93 (t, 3 H, ^3J= 7. Hz, CH_2-CH_3); 1.5 1.71 (m, 2 H, CH_2 CH_3); 3.35-3.65 (r 3 H, CH_2-CH)
	0	CH_3	phenyl	CH_3	H	C_2H_5	3.94 (s, 3 H, CH_3)	7.50-7.65 (m, 3 H, ar); 7.70-7.90 (m, 2H, ar)	3.39 (s, 3 H, CH_3)	6.37 (d, ^3J= 8.0 Hz)	4.20	0.94 (t, 3 H, ^3J= 7. Hz, CH_2-CH_3); 1.5 1.71 (m, 2 H, CH_2 CH_3); 3.35-3.65 (r 3 H, CH_2-CH)

0	CH_3	styryl	CH_3	H	C_2H_5	4.19 (s, 3 H, CH_3)	7.30-7.90 (m, 7 H, styryl)	3.41 (s, 3 H, CH_3)	6.24 (d, ^3J= 8.0 Hz)	4.85	0.91 (t, 3 H, ^3J= 8.(Hz, CH_2-$C\underline{H}_3$); 1.4(1.70 (m, 2 H, $C\underline{H}_2$- CH_3); 3.40-3.60 (m 2 H, $C\underline{H}_2$-CH); 4.1(4.20 (m, 1H, CH_2-C$\underline{H}$)
0	CH_3	styryl	CH_3	H	C_2H_5	4.20 (s, 3 H, CH_3)	7.30-7.90 (m, 7 H, styryl)	3.41 (s, 3 H, CH_3)	6.24 (d, ^3J= 7.9 Hz)	4.84	0.91 (t, 3 H, ^3J= 8.(Hz, CH_2-$C\underline{H}_3$); 1.4(1.70 (m, 2 H, $C\underline{H}_2$ CH_3); 3.40-3.60 (m 2 H, $C\underline{H}_2$-CH); 4.1(4.20 (m, 1H, CH_2-C$\underline{H}$)
0	H	styryl	CH_3	H	C_2H_5	13.00 (br, 1H, NH)	7.30-7.90 (m, 7 H, styryl)	3.40 (s, 3 H, CH_3)	-	4.20	0.92 (t, 3 H, ^3J= 7. Hz, CH_2-$C\underline{H}_3$); 1.5 1.71 (m, 2 H, $C\underline{H}_2$ CH_3); 3.35-3.65 (n 3 H, $C\underline{H}_2$-C$\underline{H}$)
0	H	styryl	CH_3	H	C_2H_5	13.00 (br, 1H, NH)	7.30-7.90 (m, 7 H, styryl)	3.41 (s, 3 H, CH_3)	-	4.20	0.94 (t, 3 H, ^3J= 7. Hz, CH_2-$C\underline{H}_3$); 1.5 1.71 (m, 2 H, $C\underline{H}_2$ CH_3); 3.35-3.65 (n 3 H, $C\underline{H}_2$-C$\underline{H}$)
1	CH_3	H	CH_3	H	H	3.91 (s, 3 H, CH_3)	7.88 (s, 1 H, CH)	3.35 (s, 3 H, CH_3)	7.03 (t, ^3J= 5.5 Hz)	4.78 (t, ^3J= 5.3 Hz)	1.60-1.80 (m, 2 H CH_2-$C\underline{H}_2$-CH_2); 3.40-3.55 (m, 4 H $C\underline{H}_2$-CH_2-$C\underline{H}_2$)
2	CH_3	H	CH_3	H	H	3.93 (s, 3 H, CH_3)	7.86 (s, 1 H, CH)	3.34 (s, 3 H, CH_3)	6.93 (t, ^3J= 5.5 Hz)	4.68	1.35-1.63 (m, 4 H CH_2-$C\underline{H}_2$-$C\underline{H}_2$-CH 3.35-3.47 (m, 4 H $C\underline{H}_2$-CH_2-$C\underline{H}_2$)

3	CH_3	H	CH_3	H	H	3.92 (s, 3 H, CH_3)	7.86 (s, 1 H, CH)	3.34 (s, 3 H, CH_3)	6.94 (t, ^3J= 5.5 Hz)	4.38	1.20-1.60 (m, 6 H, 3*CH_2); 3.35-3.40 (m, 4 H, HO-CH_2, CH-NH)

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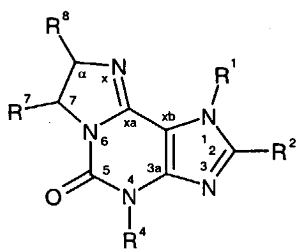
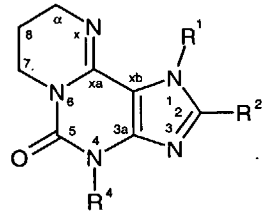
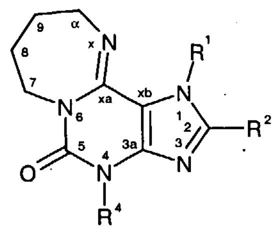
. [1]H NMR data of the synthesized tricyclic purinone derivatives



15-26



27,28



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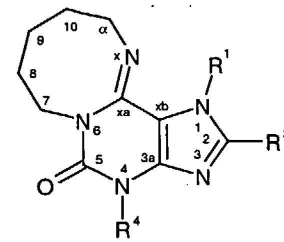

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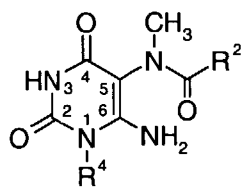
*	R^1	R^2	R^4	Nx-H	further substituents
	3.97	8.31	11.40 (vbr)	12.74	4.00-4.20 (m, N-C<u>H</u>$_2$-C<u>H</u>$_2$-N)
	3.99	8.40	5.20 (s, CH_2); 7.22-7.40 (m, -C_6H_5)		4.00-4.25 (m, N-C<u>H</u>$_2$-C<u>H</u>$_2$-N)
	4.04	8.42	3.45	11.82 (vbr)	3.8-4.2 (m)
	4.04	8.25	3.42	11.12	1.54 (d, ^3J=6.6 Hz, R^8); 3.74-3.9 (m, C<u>H</u>$_2$); 4.4-4.58 (m, C<u>H</u>)
	4.05	8.27	3.39	8.92	1.55 (d, ^3J=6.6 Hz, R^8); 3.70-3.90 (m, C<u>H</u>$_2$); 4.4-4.55 (m, C<u>H</u>)
	4.00	8.35	3.45	11.40 (br)	0.95 (t, ^3J=7.3 Hz, C<u>H</u>$_3$); 1.4-1.6 (, C<u>H</u>$_2$); 3.7-3.9 (m, C<u>H</u>$_2$); 4.2-4.4 (m, C<u>H</u>)
	4.03	8.40	3.47	11.30 (br)	0.98 (t, ^3J=7.1 Hz, C<u>H</u>$_3$); 1.4-1.6 (m, C<u>H</u>$_2$); 3.7-3.9 (m, C<u>H</u>$_2$); 4.2-4.4 (m, C<u>H</u>)
	4.02	8.38	3.45	11.20 (br)	0.94 (t, ^3J=7.2 Hz, C<u>H</u>$_3$); 1.4-1.6 (, C<u>H</u>$_2$); 3.7-3.9 (m, C<u>H</u>$_2$); 4.2-4.4 (m, C<u>H</u>)

4.07	8.32	3.45	9.08	1.53 (d, ^3J=6.6 Hz, $C\underline{H}_3$); 3.92-4.05 (m, $C\underline{H}_2$); 4.41-4.60 (m, $C\underline{H}$)
4.05	8.28	3.43	8.91	1.54 (d, ^3J=6.6 Hz, $C\underline{H}_3$); 3.90-4.07 (m, $C\underline{H}_2$); 4.40-4.60 (m, CH)
4.11	8.36	3.45	9.45	1.50 (d, ^3J=6.6 Hz, $C\underline{H}_3$); 3.90-4.05 (m, $C\underline{H}_2$); 4.40-4.60 (m, $C\underline{H}$)
3.98	7.5-7.6 (m, Ar); 7.70-7.80 (m, Ar)	10.90		3.70-3.90 (m, $C\underline{H}_2$-$C\underline{H}_2$)
4.08	7.45-7.6 (m, Ar); 7.70-7.80 (m, Ar)	3.51		3.68-3.90 (m, $C\underline{H}_2$-$C\underline{H}_2$)
4.05	7.5-7.7 (m, Ar); 7.80-7.90 (m, Ar)	3.52		0.91 (t, ^3J=7.5 Hz, $C\underline{H}_3$); 1.20-1.40 (m, $C\underline{H}_2$); 3.70-3.90 (m, $C\underline{H}_2$); 4.20-4.40 (m, $C\underline{H}$)
4.04	7.5-7.7 (m, Ar); 7.80-7.90 (m, Ar)	3.51		0.95 (t, ^3J=7.5 Hz, $C\underline{H}_3$); 1.20-1.40 (m, $C\underline{H}_2$); 3.70-3.90 (m, $C\underline{H}_2$); 4.20-4.40 (m, $C\underline{H}$)
4.01	7.5-7.7 (m, Ar); 7.80-7.90 (m, Ar)	3.56		0.94 (t, ^3J=7.5 Hz, $C\underline{H}_3$); 1.20-1.40 (m, $C\underline{H}_2$); 3.70-3.90 (m, $C\underline{H}_2$); 4.20-4.40 (m, $C\underline{H}$)
-	7.3-7.5 (m, Ar); 8.10-8.20 (m, Ar)	3.73		0.90 (t, ^3J=7.5 Hz, $C\underline{H}_3$); 1.2-1.40 (m, $C\underline{H}_2$); 3.70-3.90 (m, $C\underline{H}_2$); 4.20-4.40 (m, $C\underline{H}$)
-	7.3-7.5 (m, Ar); 8.10-8.20 (m, Ar)	3.73		0.91 (t, ^3J=7.5 Hz, $C\underline{H}_3$); 1.20-1.40 (m, $C\underline{H}_2$); 3.70-3.90 (m, $C\underline{H}_2$); 4.20-4.40 (m, $C\underline{H}$)
13.0 (vbr)	7.3-7.5 (m, Ar); 8.10-8.20 (m, Ar)	3.71		0.94 (t, ^3J=7.5 Hz, $C\underline{H}_3$); 1.20-1.40 (m, $C\underline{H}_2$); 3.70-3.90 (m, $C\underline{H}_2$); 4.20-4.40 (m, $C\underline{H}$)
4.07	7.4-7.5 (m, H-C=C + Ar); 7.70-7.90 (m, C=C-H + Ar)	3.52		0.92 (t, ^3J=7.4 Hz, $C\underline{H}_3$); 1.20-1.40 (m, $C\underline{H}_2$); 3.70-3.90 (m, $C\underline{H}_2$); 4.20-4.40 (m, $C\underline{H}$)
4.05	7.4-7.5 (m, H-C=C + Ar); 7.70-7.90 (m, C=C-H + Ar)	3.52		0.91 (t, ^3J=7.5 Hz, $C\underline{H}_3$); 1.20-1.40 (m, $C\underline{H}_2$); 3.70-3.90 (m, $C\underline{H}_2$); 4.20-4.40 (m, $C\underline{H}$)
13.1 (vbr)	7.4-7.5 (m, H-C=C + Ar); 7.70-7.90 (m, C=C-H + Ar)	3.69		0.91 (t, ^3J=7.6 Hz, $C\underline{H}_3$); 1.20-1.40 (m, $C\underline{H}_2$); 3.70-3.90 (m, $C\underline{H}_2$); 4.20-4.40 (m, $C\underline{H}$)

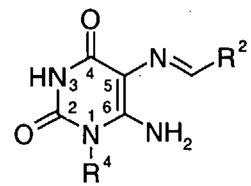
13.2 (vbr)	7.4-7.5 (m, H-C=C + Ar); 7.70-7.90 (m, C=C-H + Ar)	3.74		0.92 (t, ^3J=7.5 Hz, $C\underline{H}_3$); 1.20-1.40 (m, $C\underline{H}_2$); 3.70-3.90 (m, $C\underline{H}_2$); 4.20-4.40 (m, $C\underline{H}$)
4.05 (d, ^4J=0.5 Hz)	8.30 (m)	3.48	9.65	3.95-4.05 (t; ^3J=5.5 Hz; R^7); 2.0-2.15 (m; R^8); 3.49-3.60 (m; $C\underline{H}_2$)
4.02	-	3.46	9.8 (vbr)	2.0-2.2 (m; $C\underline{H}_2$); 3.5-3.6 (m; N-$C\underline{H}_2$); 3.9-4.0(m; N-$C\underline{H}_2$)
4.05	8.29	3.44	9.1	1.4-1.9 (m; C8$\underline{H}_2$-C9$\underline{H}_2$); 3.55-3.75 (m, C7$\underline{H}_2$; C10$\underline{H}_2$)
4.08	8.31	3.44	9.27	1.80 (m; C8$\underline{H}_2$-C9$\underline{H}_2$-C10$\underline{H}_2$); 3.5-3.8 (m; 2*N-$C\underline{H}_2$)

data were obtained from hydrochlorides

5. ^{13}C NMR data of selected pyrimidine derivatives



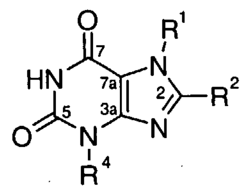
6 a,c



8

d	C2	C4	C5	C6	R^4	further signals
	153.3	159.5	93.7	150.3	29.1	34.3; 108.9; 118.7; 127.8; 128.7; 129.3; 140.4; 167.8
	152.6	159.0	96.0	149.7	28.9	34.3; 125.4; 127.1; 128.8; 137.4; 172.9
	149.4	157.8	99.9	154.8	29.5	112.8; 126.8;128.4; 129.0; 131.8; 136.5; 136.8; 149.4; 151.2; 151.6

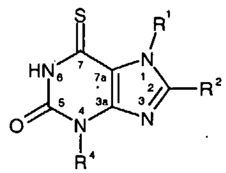
6. ^{13}C NMR data of selected xanthine derivatives



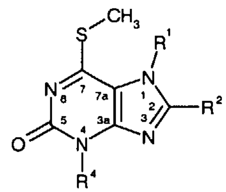
11

d	C2	C3a	C5	C7	C7a	R^1	R^2	R^4
[illegible]	140.6	149.2	150.9	154.6	106.9	-	-	45.0; 127.2; 127.5; 128.3; 137.1
[illegible]	142.8	149.0	151.2	155.6	106.7	32.9	-	-
[illegible]	150.8	149.2	151.1	155.1	108.2	33.5	128.3; 128.7; 129.0; 130.1	28.4
[illegible]	150.2	149.2	151.0	154.2	107.4	-	115.6; 127.0; 128.9; 134.1; 134.9; 135.3	28.7

7. ^{13}C NMR data of selected thioxanthine and methylsulfanylxanthine derivatives



12

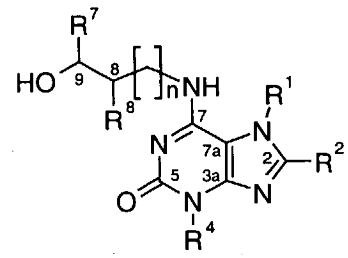


13

d	C2	C3a	C5	C7	C7a	R^1	R^2	R^4	S-CH_3
	146.4	147.1	149.1	175.6	117.2	34.7	-	29.0	-
	143.6	145.2	148.9	175.3	118.3	-	-	45.5; 127.4; 127.6; 128.4; 136.4	-
	146.5	149.1	152.0	176.8	117.0	34.5	-	-	-
	146.5	149.1	152.5	173.7	119.8	-	127.1; 128.3; 128.8; 130.7	29.1	-
	146.8	148.8	154.4	175.0	118.3	34.7	128.1; 128.7; 129.4; 130.6	28.8	-
	146.7	149.2	152.2	173.0	119.2	-	115.2; 127.2; 128.9; 129.3; 135.3; 136.6	29.1	-
	147.5	148.7	152.6	173.6	117.8	32.1	112.8; 127.8; 128.8; 129.6; 135.8; 138.3	28.8	-
	145.2	150.8	153.3	160.6	113.4	34.3	-	45.4; 127.2; 127.7; 128.3; 136.9	11.5
	150.7	151.9	153.3	159.3	114.5	-	126.9; 128.4; 128.9; 130.8	29.8	11.8

14

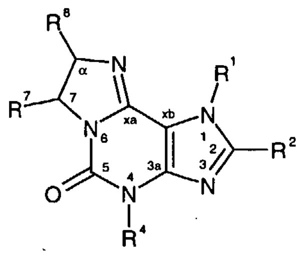
. ^{13}C NMR data of selected 6-(hydroxyalkylamino)xanthines[1]



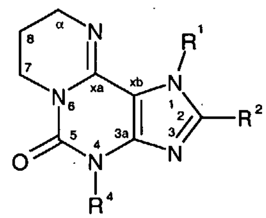
14a-o

l	C2	C3a	C5	C7	C7a	C8	C9	R^1	R^2	R^4	further signals
	142.7	151.4	155.0	152.1	104.2	44.7	59.5	33.8	-	42.8; 126.8; 127.5; 128.1; 138.0	-
	142.7	151.8	155.5	152.0	104.2	42.8	59.6	33.8	-	28.7	-
e	142.7	151.8	155.4	152.1	104.1	53.4	62.4	33.8	-	28.7	*
	142.7	151.7	155.5	152.1	104.2	53.4	62.5	33.8	-	28.7	10.6; 23.4
f	142.7	151.7	155.5	152.0	104.2	47.8	64.8	33.8	-	28.7	21.0
	142.7	151.8	155.4	152.1	104.1	47.8	64.8	33.8	-	28.7	*
i	146.6	150.8	151.8	148.9	102.9	56.9	62.8	-	126.2; 127.6; 129.3; 131.2	29.4	10.0; 21.1
	150.9	151.5	155.3	152.2	105.8	53.5	62.5	34.5	128.6; 128.7; 129.4; 130.0	28.8	10.7; 23.4
	146.3	150.8	151.5	148.9	102.5	56.8	62.7	*	115.1; 127.5; 128.9; 129.6; 134.8	29.4	10.0; 23.1
	142.7	151.7	155.7	152.0	104.2	37.9	58.8	31.9	-	28.8	33.9
	142.6	151.8	155.8	151.7	104.2	40.0	60.6	33.9	-	28.7	25.6; 29.9
	142.5	151.8	155.8	151.7	104.2	40.1	60.6	33.8	-	28.7	22.9 * (28.7)

le 9. ^{13}C NMR data of selected tricyclic purinone derivatives



16, *R*-20



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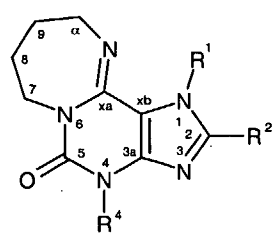

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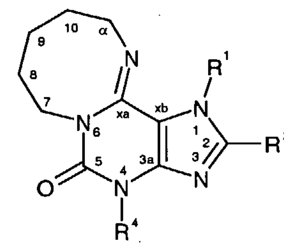

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od*	R^1	C2	C3a	C5	Cxa	Cxb	R^4	C7	Cα	further signals
6	34.3	147.7	152.8	146.6	147.6	101.0	45.8 (CH_2); 127.6; 127.7; 128.4; 135.7	44.7	44.4	
20	34.8	149.2	151.6	146.9	147.2	103.1	28.9	45.1	41.4	25.8
7	35.2	148.1	149.9	146.3	147.9	102.7	30.2	42.5	42.7	18.1 (C8)
9	35.2	148.7	151.7	146.7	147.3	103.1	29.2	41.5	45.1	25.76 (C8); 28.95 (C9)
0	35.0	148.8	151.7	146.8	147.0	103.0	29.1	42.0	45.2	29.13 (C8); 23.13 (C9); 31.6 (C10)

IR data were obtained from hydrochlorides