

表 4.8 Distribution of AF metabolites in bladder from SD rats

Treatment \ AF Metabolites	1-OH-AAF	3-OH-AAF	5-OH-AAF	7-OH-AAF	8-OH-AAF	9-OH-AAF	AAF	AF
Control(AF only)	0.19 ±0.013	0.030 ±0.01	0.39 ±0.014	0.140 ±0.028	0.080 ±0.024	0.240 ± 0.046	0.049 ±0.014	0.046 ±0.014
Gyenosides 24h + AF	*0.009 ±0.004	0.036 ±0.014	0.50 ±0.019	0.149 ±0.030	0.070 ±0.020	ND	0.018 ±0.010	0.029 ±0.011
Gyenosides + AF	*0.006 ±0.002	*0.046 ±0.018	*0.064 ±0.014	*0.274 ±0.016	0.066 ±0.024	ND	*0.006 ±0.002	*0.018 ±0.010

Values are mean ± SD; n = 6.

ND: not detectable.

The bladder tissues were determined for AF and AF metabolites.

Data were analyzed by an unpaired Student's *t*-test.

\* Difference between AF treated (control) and Gyenosides treated 24 hours with AF or AF with Gyenosides co-treated.  $p < 0.05$

表 4.9 Distribution of AF metabolites in blood from SD rats

Treatment \ AF Metabolites	1-OH-AAF	3-OH-AAF	5-OH-AAF	7-OH-AAF	8-OH-AAF	9-OH-AAF	AAF	AF
Control(AF only)	0.09 ± 0.04	0.30 ± 0.06	0.22 ± 0.039	1.74 ± 0.29	0.23 ± 0.05	1.069 ± 0.020	0.186 ± 0.010	0.054 ± 0.011
Gyenosides 24h + AF	*0.18± 0.03	0.22 ± 0.05	*0.10 ± 0.04	1.81 ± 0.33	0.16 ± 0.028	*0.50 ± 0.04	*0.34 ± 0.09	*0.020 ± 0.008
Gyenosides + AF	0.11± 0.04	0.20 ± 0.044	0.14 ± 0.004	*2.59 ± 0.26	*0.36 ± 0.058	0.74 ± 0.069	0.24 ± 0.09	0.039 ± 0.010

Values are mean ± SD; n = 6.

The blood tissues were determined for AF and AF metabolites.

Data were analyzed by an unpaired Student's *t*-test.

\* Difference between AF treated (control) and Gyenosides treated 24 hours with AF or AF with Gyenosides co-treated.  $p < 0.05$

表 4.10 Distribution of AF metabolites in colon from SD rats

Treatment \ AF Metabolites	1-OH-AAF	3-OH-AAF	5-OH-AAF	7-OH-AAF	8-OH-AAF	9-OH-AAF	AAF	AF
Control(AF only)	ND	0.030 ± 0.01	0.039 ± 0.01	0.54 ± 0.09	0.069 ± 0.02	0.24 ± 0.02	0.05 ± 0.02	0.048 ± 0.01
Gypenosides 24h + AF	ND	0.038 ± 0.02	0.054 ± 0.02	*0.28 ± 0.08	0.098 ± 0.03	*0.39 ± 0.06	*0.016 ± 0.01	0.038 ± 0.08
Gypenosides + AF	ND	*0.084 ± 0.02	0.074 ± 0.009	0.46 ± 0.06	0.094 ± 0.04	*0.54 ± 0.07	*0.014 ± 0.01	0.057 ± 0.04

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Values are mean ± SD; n = 6.

ND: not detectable.

The colon tissues were determined for AF and AF metabolites.

Data were analyzed by an unpaired Student's *t*-test.

\* Difference between AF treated (control) and Gypenosides treated 24 hours with AF or AF with Gypenosides co-treated.  $p < 0.05$

表 4.11 Distribution of AF metabolites in kidney from SD rats.

Treatment \ AF Metabolites	1-OH-AAF	3-OH-AAF	5-OH-AAF	7-OH-AAF	8-OH-AAF	9-OH-AAF	AAF	AF
Control(AF only)	0.018 ±0.006	0.049 ± 0.024	3.61 ±0.96	0.88 ±0.20	0.056 ± 0.012	0.92 ± 0.16	0.36 ±0.09	0.074 ± 0.026
Gypenosides 24h + AF	*0.008 ±0.004	*0.005 ± 0.002	*0.62 ±0.10	*0.36 ±0.12	0.046 ± 0.014	0.82 ± 0.11	*0.59 ±0.06	0.067 ± 0.02
Gypenosides + AF	0.04 ±0.005	0.056 ± 0.026	*0.51 ±0.012	0.84 ±0.22	*0.088 ± 0.010	1.02 ± 0.16	0.37 ±0.04	0.0547 ± 0.04

Values are mean ± SD; n = 6.

The kidney tissues were determined for AF and AF metabolites.

Data were analyzed by an unpaired Student's *t*-test.

\* Difference between AF treated (control) and Gypenosides treated 24 hours with AF or AF with Gypenosides co-treated.  $p < 0.05$

表 4.12 Distribution of AF metabolites in liver from SD rats.

Treatment \ AF Metabolites	1-OH-AAF	3-OH-AAF	5-OH-AAF	7-OH-AAF	8-OH-AAF	9-OH-AAF	AAF	AF
Control(AF only)	ND	3.89 ± 0.42	8.26 ± 0.96	20.44 ± 2.86	4.04 ± 0.82	24.96 ± 3.54	0.58 ± 0.09	1.14 ± 0.32
Gypenosides 24h + AF	ND	*5.43 ± 0.22	*5.44 ± 0.50	*27.54 ± 1.02	*1.36 ± 0.50	22.43 ± 2.74	*1.14 ± 0.19	*1.84 ± 0.30
Gypenosides + AF	ND	*4.93 ± 0.16	*15.70 ± 0.84	*49.34 ± 4.87	*8.43 ± 1.06	*49.69 ± 6.43	*1.24 ± 0.22	1.57 ± 0.22

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Values are mean ± SD; n = 6.

ND: not detectable.

The liver tissues were determined for AF and AF metabolites.

Data were analyzed by an unpaired Student's *t*-test.

\* Difference between AF treated (control) and Gypenosides treated 24 hours with AF or AF with Gypenosides co-treated.  $p < 0.05$

表 4.13 Distribution of AF metabolites in stomach from SD rats

Treatment \ AF Metabolites	1-OH-AAF	3-OH-AAF	5-OH-AAF	7-OH-AAF	8-OH-AAF	9-OH-AAF	AAF	AF
Control(AF only)	ND	ND	0.054 ± 0.02	0.22 ± 0.08	0.048 ± 0.06	0.84 ± 0.06	0.02 ± 0.01	0.038 ± 0.011
Gyenosides 24h + AF	ND	ND	*0.018 ± 0.02	*0.03 ± 0.02	ND	ND	ND	0.24 ± 0.06
Gyenosides + AF	ND	ND	0.029 ± 0.04	0.21 ± 0.06	*0.084 ± 0.018	*0.11 ± 0.04	0.01 ± 0.01	0.022 ± 0.04

Values are mean ± SD; n = 6.

ND: not detectable.

The stomach tissues were determined for AF and AF metabolites.

Data were analyzed by an unpaired Student's *t*-test.

\* Difference between AF treated (control) and Gyenosides treated 24 hours with AF or AF with Gyenosides co-treated.  $p < 0.05$

表 4.14 Distribution of AF metabolites in uterus from SD rats

Treatment \ AF Metabolites	1-OH-AAF	3-OH-AAF	5-OH-AAF	7-OH-AAF	8-OH-AAF	9-OH-AAF	AAF	AF
Control(AF only)	0.10 ± 0.06	0.043 ± 0.008	3.04 ± 0.42	0.74 ± 0.22	0.044 ± 0.010	0.80 ± 0.18	0.30 ± 0.08	0.054 ± 0.006
Gypenosides 24h + AF	*0.03 ± 0.02	*0.021 ± 0.004	*0.78 ± 0.08	*0.24 ± 0.06	0.033 ± 0.010	0.74 ± 0.16	*0.64 ± 0.06	0.040 ± 0.04
Gypenosides + AF	0.06 ± 0.04	0.040 ± 0.006	*0.59 ± 0.09	0.40 ± 0.20	*0.75 ± 0.04	0.94 ± 0.18	0.37 ± 0.04	0.046 ± 0.07

Values are mean ± SD; n = 6.

The uterus tissues were determined for AF and AF metabolites.

Data were analyzed by an unpaired Student's *t*-test.

\* Difference between AF treated (control) and Gypenosides treated 24 hours with AF or AF with Gypenosides co-treated.  $p < 0.05$

表 4.15 Distribution of AF metabolites in urine from SD rats

Treatment \ AF Metabolites	1-OH-AAF	3-OH-AAF	5-OH-AAF	7-OH-AAF	8-OH-AAF	9-OH-AAF	AAF	AF
Control(AF only)	0.046 ± 0.022	1.16 ± 0.27	3.06 ± 0.44	12.96 ± 1.94	15.94 ± 1.10	35.86 ± 4.14	1.54 ± 0.34	0.26 ± 0.04
Gyenosides 24h + AF	ND	*1.74 ± 0.11	*8.74 ± 1.04	14.06 ± 1.49	*9.22 ± 0.43	*44.27 ± 3.42	*3.94 ± 0.40	*0.64 ± 0.05
Gyenosides + AF	*0.089 ± 0.029	0.09 ± 0.20	2.67 ± 0.58	10.44 ± 1.02	15.12 ± 2.06	27.54 ± 3.40	2.12 ± 0.22	0.22 ± 0.04

Values are mean ± SD; n = 6.

ND: not detectable.

The urine tissues were determined for AF and AF metabolites.

Data were analyzed by an unpaired Student's *t*-test.

\* Difference between AF treated (control) and Gyenosides treated 24 hours with AF or AF with Gyenosides co-treated.  $p < 0.05$

表 4.16 Distribution of AF metabolites in stool from SD rats

Treatment \ AF Metabolites	1-OH-AAF	3-OH-AAF	5-OH-AAF	7-OH-AAF	8-OH-AAF	9-OH-AAF	AAF	AF
Control(AF only)	2.46 ± 0.082	14.49 ± 4.20	33.04 ± 6.54	42.49 ± 7.90	80.43 ± 8.54	95.94 ± 8.49	1.54 ± 0.30	50.27 ± 6.04
Gypenosides 24h + AF	*4.14 ± 0.44	15.04 ± 6.12	*48.96 ± 4.49	*84.09 ± 8.20	*146.04 ± 9.44	*174.27 ± 8.28	1.90 ± 0.39	*90.59 ± 9.06
Gypenosides + AF	3.16 ± 0.57	17.69 ± 6.26	32.67 ± 2.59	41.84 ± 4.04	85.12 ± 6.42	97.99 ± 5.67	1.56 ± 0.08	60.22 ± 0.04

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Values are mean ± SD; n = 6.

The stool tissues were determined for AF and AF metabolites.

Data were analyzed by an unpaired Student's *t*-test.

\* Difference between AF treated (control) and Gypenosides treated 24 hours with AF or AF with Gypenosides co-treated.  $p < 0.05$