

Table SI. Effect of Evo on bodyweight and organ indexes of mice with ulcerative colitis.

Parameter	CTRL	3.0% DSS			
		DSS only	SASP (0.6 g/kg)	Evo (mg/kg)	
				10	30
Body weight (g)					
1st day	23.2±0.3	23.1±0.3	23.1±0.3	23.1±0.3	23.1±0.3
6th day	24.4±0.2	23.2±0.3 ^a	23.2±0.3	23.2±0.3	23.2±0.3
13th day	24.4±0.3	20.1±0.7 ^b	21.2±0.7	20.9±0.7	22.6±0.5 ^c
20st day	25.7±0.3	22.9±0.5 ^b	24.3±0.3 ^c	23.8±0.4	24.3±0.2 ^c
27th day	26.4±0.4	23.8±0.4 ^b	24.5±0.4	25.0±0.2 ^c	25.2±0.2 ^c
Organ index (%)					
Spleen	0.28±0.01	0.55±0.05 ^b	0.42±0.02	0.37±0.03 ^c	0.32±0.02 ^d
Liver	3.81±0.04	4.71±0.19 ^b	4.33±0.06 ^c	4.18±0.08 ^c	4.24±0.08 ^d
Kidney	1.19±0.02	1.21±0.03	1.25±0.04	1.23±0.01	1.24±0.02

Data were analyzed using one-way ANOVA and expressed as the mean± SEM (n=15). ^aP<0.01 and ^bP<0.001 vs. negative control mice; ^{*}P<0.05, ^dP<0.01 and ^eP<0.001 vs. ulcerative colitis mice. DSS, dextran sodium sulfate; CTRL, control; Evo, Evodiamine; SASP, Sulfasalazine.

Table SII. Results of differential-expressed protein in the samples from C57BL/6 mice with UC.

Gene names	fc..CRTL--Model	fc..Model--10mg/kg Evo
Prorsd1	152.5996	0.0063708
Syne2	75.80529	0.014295
Banf1	75.35449	0.0160268
Rab1b	49.27247	0.0221919
Fblim1	31.40618	0.025196
Mvd	30.29963	0.0293303
Acss2	40.3046	0.0296535
Galk1	26.0271	0.0306519
Hint2	32.9206	0.0349921
Pds5a	48.80501	0.0353401
Parp9	28.64078	0.0448427
Gnao1	19.88283	0.0464415
Gipc2	18.74995	0.0467667
Hmgb3	23.10777	0.0472241
Adam10	21.04979	0.0500377
Brk1	19.48674	0.0535466
1110005A23Rik;Sarnp	18.82592	0.0567927
Rap1a;Gm9392	18.22762	0.0571532
Csnk1a1	12.71221	0.0594218
mt-Nd1;ND1;Mtnd1	13.44172	0.0603273
Atp6v0d1	15.64175	0.060726
Rexo2	19.01863	0.0631304
Aldoc	3.371455	0.4414354
Galnt1	2.297861	0.442859
Pla2g4c	4.240254	0.4435096
Man1a;Man1a1	3.437068	0.4522245
B3gnt7	4.816294	0.4575006
Sun1	2.844046	0.4730906
Acsm3	3.700846	0.4815987
Wasl	2.089058	0.5006134
Txndc9	1.919495	0.5063291
St3gal6	2.254318	0.5088168
Mapk13	1.525012	0.5114787
Ppp1r1b	2.072634	0.5147323
Arpc5	2.831206	0.5263029
Gmpr	2.112778	0.5345966
Nup93	1.833611	0.534603
Cisd1	2.119178	0.5371058
Fbn1	1.739521	0.5452779
Slc12a2	2.030303	0.5747239
Mcm3	2.045444	0.5773691
Luc7l3	1.798045	0.5818891

Ubtf	1.582313	0.5826726
Cth	1.760548	0.5888283
C3	0.299983	1.8464511
Dscr3	0.142625	1.8487483
Prpf4	0.497242	1.8719389
Apol10a	0.232218	1.9058091
Galnt3	0.640088	1.9133523
Ifggd1;Igtf	0.448899	1.9255557
Plcg2	0.373723	1.9777
Ap3m1	0.330426	2.0159871
Ca1	0.404706	2.0186581
Lgmn	0.068326	2.0449824
Uba7	0.162255	2.0534785
Smpd13a	0.455853	2.0734809
Tap1	0.285409	2.1352888
Zfp422;Znf22	0.309703	2.1546143
Zg16	0.625707	2.1774566
Upp1	0.451596	2.1847251
Ifitm3;Ifitm2	0.403743	2.1849702
Mob4	0.294867	2.2370386
Stxbp3;Stxbp3b	0.248683	2.2400488
Dock1	0.448236	2.2450349
Gsta1;Gsta2;Gm10639	0.216012	2.2817858
Rragd;Rragc	0.133791	2.3729077
Clpp	15.68761	0.0635922
Ggh	49.19446	0.0674738
Ranbp3	7.952681	0.080494
Ik	13.34166	0.0814714
Tbl2	15.06727	0.0866417
Susd2	9.07672	0.0944565
Pdcd4	12.45718	0.1002631
Rps15	13.41727	0.1069667
F11r	9.086706	0.1096411
Nagk	7.207704	0.1124664
Glrx5	8.166407	0.11312
Gbp9;Gbp8;Mpa21;Gbp11;Gbp10;Gbp6	8.820236	0.1146659
Tmem30b	7.313221	0.115555
Nipsnap1	9.620997	0.1193293
Appl2	11.83265	0.1222695
Nme1	5.530678	0.1251235
Nup133	7.580897	0.1251711
Gstk1	6.221674	0.1310775
Chordc1	7.91338	0.1388539
Urod	7.407249	0.139651
Polr2h	6.994649	0.1426581

Ampd3	4.633488	0.1457707
Atp13a1;mKIAA1825	6.417928	0.1461757
Sfl	1.602935	0.5915341
Pck1	2.391162	0.5925296
Tsfm	1.620645	0.5959858
Col6a2	1.503381	0.6060193
Igf2r	1.729995	0.6090123
Gpx2	1.700633	0.611425
Mecr	1.896193	0.6134405
Rbm47	1.549361	0.6146954
Gstm3	1.538837	0.6180931
Col6a1	1.784359	0.6230088
Spink3	2.474012	0.6255812
Tgm3	19.08798	0.626719
Mpst	1.669983	0.639736
Shmt1	1.866149	0.6407636
Cask	2.014518	0.6410246
Hnrnpul1	1.627753	0.6414494
Col6a3	1.730609	0.6423289
Slc35a1	1.594572	0.6544504
Hist1h1a	1.64432	0.6559914
Wdr5	1.804426	0.6565489
Snrpa;Gm5145	1.50128	0.6569925
S100a4	0.503313	1.5052917
Pnpt1	0.20776	1.5060356
Lin7c;Lin7a;Lin7b	0.563822	2.4223489
Memol	0.271506	2.4295216
Pfdn2	0.424622	2.481574
Hp	0.081126	2.5128461
Iigp1	0.065481	2.6665302
Plekho2	0.63763	2.7141599
I830012O16Rik;Ifit3	0.232232	2.8087042
Gm9774;Adrm1	0.331646	2.8229017
Gbp7	0.556613	2.8617359
Erol1	0.401731	2.8714227
Itih4	0.113786	3.01334
Gm5409;Try10	0.630526	3.0759651
Slc30a7	0.210145	3.2098382
Dapk3	0.192062	3.3060101
Zbp1	0.28538	3.3959743
Arfgap2	0.420481	3.6097401
Slc25a13	0.455439	3.6660802
Irgm2	0.310557	3.6782105
Rbpms	0.280345	3.6950605
Lamtor2	0.238899	3.7580263

Fam175b	0.398746	3.8317728
Ermp1	0.348175	3.8346551
Tomm5	0.190668	3.8353272
Mien1	5.79427	0.1492598
Pfdn6	7.618564	0.1633185
Zmpste24	4.744886	0.1691182
Acap2	4.99563	0.1703112
Gdpd1	5.719916	0.1721227
Nov	4.313418	0.1822831
ppp2r5d;Ppp2r5d	2.792223	0.1839129
Srrm2	13.01256	0.1872219
Smarb1	5.988874	0.1918486
Smpd3	5.195602	0.1945553
Crem;Creb1;Atf1	5.10218	0.1952138
Golga4	3.573001	0.2009272
Ppih	4.578904	0.2032176
Eno2	5.139475	0.20898
Prkg1	6.568605	0.2135666
Rer1	3.945214	0.2199406
Guk1	3.949948	0.2243878
Diap1;Diaph1	3.23004	0.2295227
Fdx1	3.981944	0.2305255
Syvn1	4.605825	0.2463166
Hdh2;Ier3ip1;Gm10784	4.289966	0.2508957
Acp6	3.935789	0.252399
Nxn	0.619652	1.5138601
Apoe	0.458718	1.5145429
H2-Aa;H2Aa	0.643311	1.5228428
Xdh	0.636887	1.524294
Dnajb4	0.60904	1.5520828
Akap12	0.631731	1.5536648
Otc	0.479038	1.5554782
Ctsc	0.659034	1.5616909
Cygb	0.476858	1.5647894
Fga	0.280154	1.5716084
Rcn3	0.384647	1.5857596
Pdlim4	0.638991	1.5926968
Myl4	0.426772	1.5939477
Sgcd	0.663236	1.5983873
Rgs10	0.602163	1.6134949
Cd74	0.431172	1.6197015
Ifi47	0.581694	1.6258448
Msrb3	0.506005	1.6278573
Mrpl22	0.425733	1.633299
Dctn3	0.311692	1.6426629

Stat1	0.543597	1.6517753
Grem1;Grem2	0.015707	1.6532322
Sprr1a;Sprr1b	0.166096	3.852095
Chil3;Chil4	0.472104	3.9363493
COX17;Cox17	0.293507	4.0568662
Rnasel	0.549207	4.0944739
Gyg;Gyg1	0.210659	4.210312
Prkaa2	0.205549	4.213627
2210407C18Rik	0.249372	5.1096057
Slc22a18	0.134341	5.1685732
S100a9	0.018331	5.2720837
Ppic	0.211501	5.4128588
Ngp	0.093329	5.6287149
Pgrmc1	0.075104	5.6649991
Atp6v1f	0.259935	5.6934462
Dhdh	0.152263	5.7148632
Gng12	0.115481	5.8124815
Lsm4	0.149187	6.0742651
Cds2	0.287275	6.099192
Atp6v0c	0.538065	6.2238289
Snrpf	0.150678	6.2346431
Chga	0.091366	6.5935673
Map11c3b;Gm5612;Map11c3a	0.106318	6.7591803
Serpina3n;Serpina3h	0.125741	7.2338035
Itfg3	4.417285	0.2556263
Smad4	3.338861	0.2684577
Napg	4.165715	0.2696658
Ano10	4.175322	0.2706794
Ecm29;AI314180	3.892415	0.2742505
Micu2	3.013963	0.2769888
Eif2b5	4.740433	0.2825796
Gm27029;Aarsd1	3.403016	0.2827462
Srsf11;Sfrs11	3.221458	0.2871257
Ublep1	3.295124	0.2959272
Coq6	4.346012	0.2971176
Golga3	2.984441	0.3128163
Akap8	3.45124	0.3286033
Slc4a7	2.471463	0.3543822
Ddx23	2.751994	0.3574556
Ttc37	4.214825	0.365577
Smarce1	2.583148	0.3666323
Tgtp1;Tgtp	1.830586	0.3818967
Dhodh	2.033087	0.4068602
Rab4b	0.476209	1.6548566
Lrpap1	0.571208	1.656429

Hcls1	0.5819	1.6856123
Colgalt1	0.541504	1.6955885
Fabp5	0.233008	1.6993681
H6pd	0.60174	1.7041536
Palm	0.588206	1.7154625
Lamp2	0.584547	1.7480078
Sirt2	0.432794	1.7512534
Gda	0.393949	1.7656937
Rab32	0.49333	1.7713074
Mgat4c	0.426557	1.7756972
Igfbp7	0.472305	1.7826569
Smad3;Smad9;Smad2;Smad5;Smad1	0.36354	1.7842058
Gbp4	0.576738	1.7865948
Aip	0.662414	1.8058711
Impad1	0.2501	1.8230431
Fam136a	0.543258	1.8248683
Kdm1a	0.462687	1.8314806
Il1rn	0.057197	7.848159
Cpne1	0.232573	8.0906478
Cd68	0.104238	8.1549723
ND4;mt-Nd4;Mtnd4	0.166682	8.4054565
Arl3	0.617665	8.5875652
Tmsb10	0.046288	8.626712
Fuca1	0.332837	8.6895637
Pea15;Pea15a	0.108669	9.1486068
Chp1	0.115039	10.602032
Snrpg	0.078575	11.949124
Mzb1	0.137553	12.109698
Lsm3	0.063812	14.506484
Copz1	0.042332	15.585691
Atp5j2	0.036455	16.170401
Rap2c;Rap2b;Rap2a	0.121698	18.488553
Ube2d3;Ube2d2a;Ube2d2	0.611395	23.670113
Cox7a2	0.065773	33.388822
mCG_6739;Rps21	0.02575	45.916403
Macf1	0.00438	114.2784

UC, ulcerative colitis; Evo, evidiamine; CTRL, control; FC, fold change.

Table SIII. Effect of Evo on inflammatory factors in the serum of mice with ulcerative colitis.

Inflammatory factor (pg/ml)	CTRL	3% DSS			
		DSS only	SASP (0.6g/kg)	Evo (mg/kg)	
				10	30
IL-1 β	54.6 \pm 1.0	60.4 \pm 2.2 ^a	56.0 \pm 1.4	54.1 \pm 1.7 ^b	51.4 \pm 0.9 ^c
IL-2	132.9 \pm 2.1	137.1 \pm 4.4	112.1 \pm 3.6 ^b	140.6 \pm 4.1	140.4 \pm 3.1
IL-6	68.5 \pm 1.4	66.7 \pm 2.7	66.0 \pm 1.0	66.0 \pm 2.2	60.2 \pm 0.6 ^b
IL-8	84.2 \pm 3.0	87.3 \pm 2.0	82.1 \pm 3.2	86.9 \pm 2.1	79.9 \pm 1.8 ^b
TNF- α	145.3 \pm 3.0	150.9 \pm 6.9	127.3 \pm 3.7 ^b	158.2 \pm 9.6	140.8 \pm 5.3
IFN- γ	685.8 \pm 29.5	713.2 \pm 17.4	647.1 \pm 19.6 ^b	724.5 \pm 34.0	675.0 \pm 24.6

Data were analyzed using a one-way ANOVA and expressed as the mean \pm SEM (n=6). ^aP<0.05 vs. negative control mice; ^bP<0.05 and ^cP<0.01 vs. ulcerative colitis mice. DSS, dextran sodium sulfate; CTRL, control; Evo, Evodiamine; SASP, Sulfasalazine.