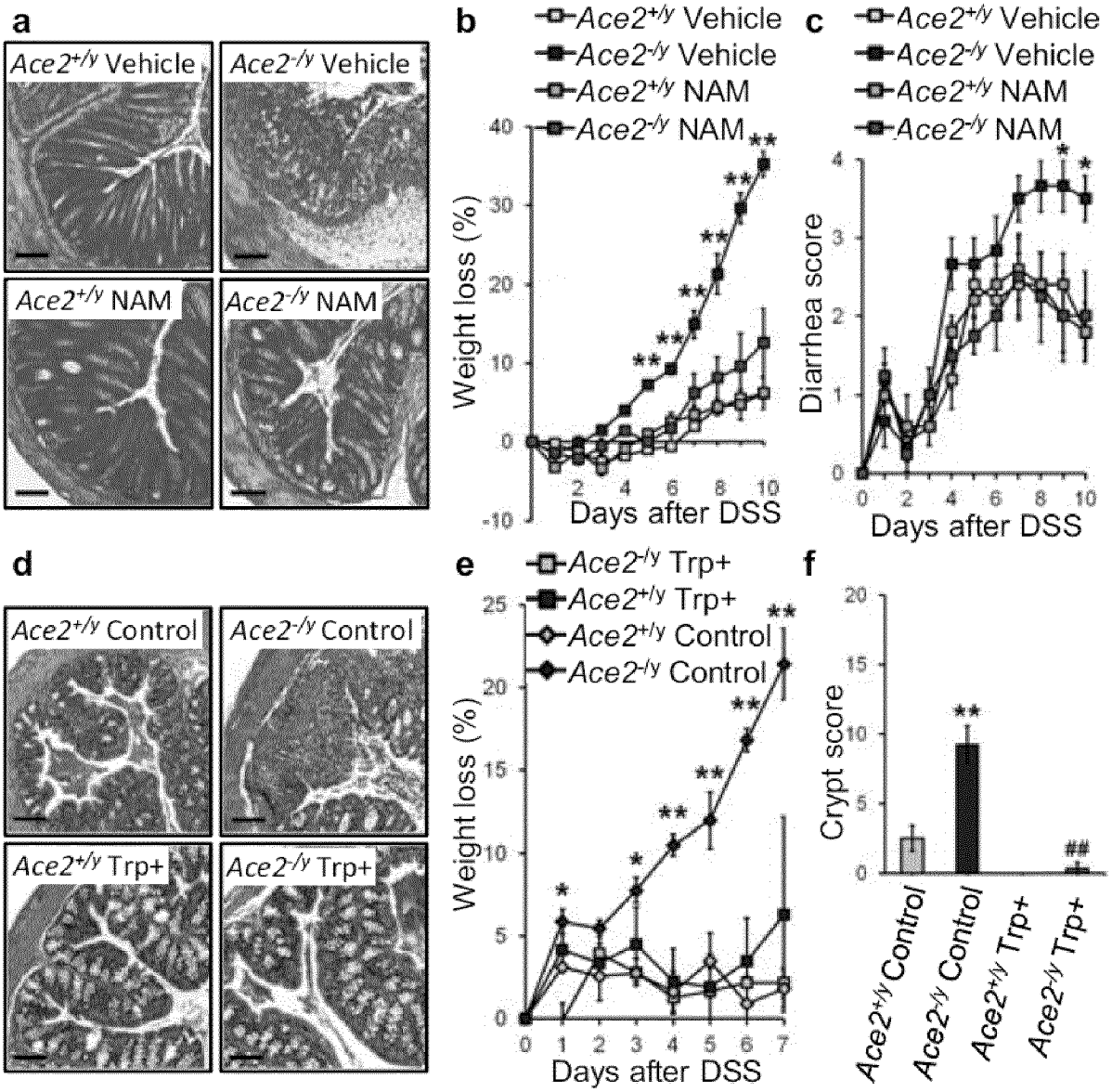

a
Ace2+/y Vehicle
Ace2-/y Vehicle
Ace2+/y NAM
Ace2-/y NAM
b
Ace2+/y Vehicle
Ace2-/y Vehicle
Ace2+/y NAM
Ace2-/y NAM
Weight loss (%)
Days after DSS
c
Ace2+/y Vehicle
Ace2-/y Vehicle
Ace2+/y NAM
Ace2-/y NAM
Diarrhea score
Days after DSS
d
Ace2+/y Control
Ace2-/y Control
Ace2+/y Trp+
Ace2-/y Trp+
e
Ace2-/y Trp+
Ace2+/y Trp+
Ace2+/y Control
Ace2-/y Control
Weight loss (%)
Days after DSS
f
Crypt score
Ace2+/y Control
Ace2-/y Control
Ace2+/y Trp+
Ace2-/y Trp+

Fig. 1

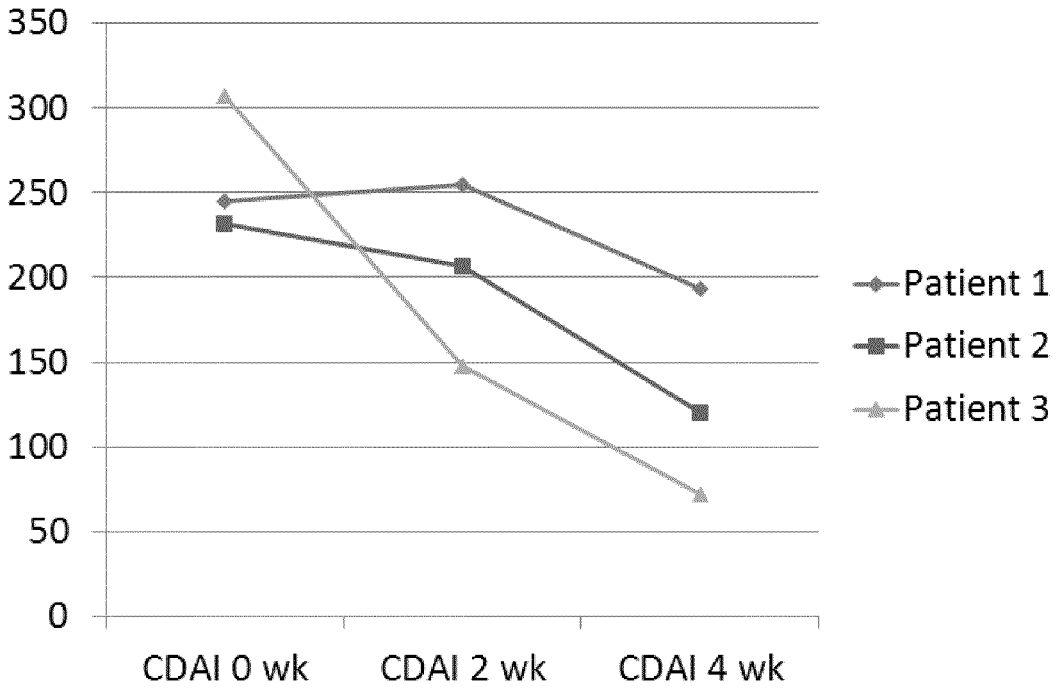

350
300
250
200
150
100
50
0
CDAI 0 wk
CDAI 2 wk
CDAI 4 wk
Patient 1
Patient 2
Patient 3

Fig. 2

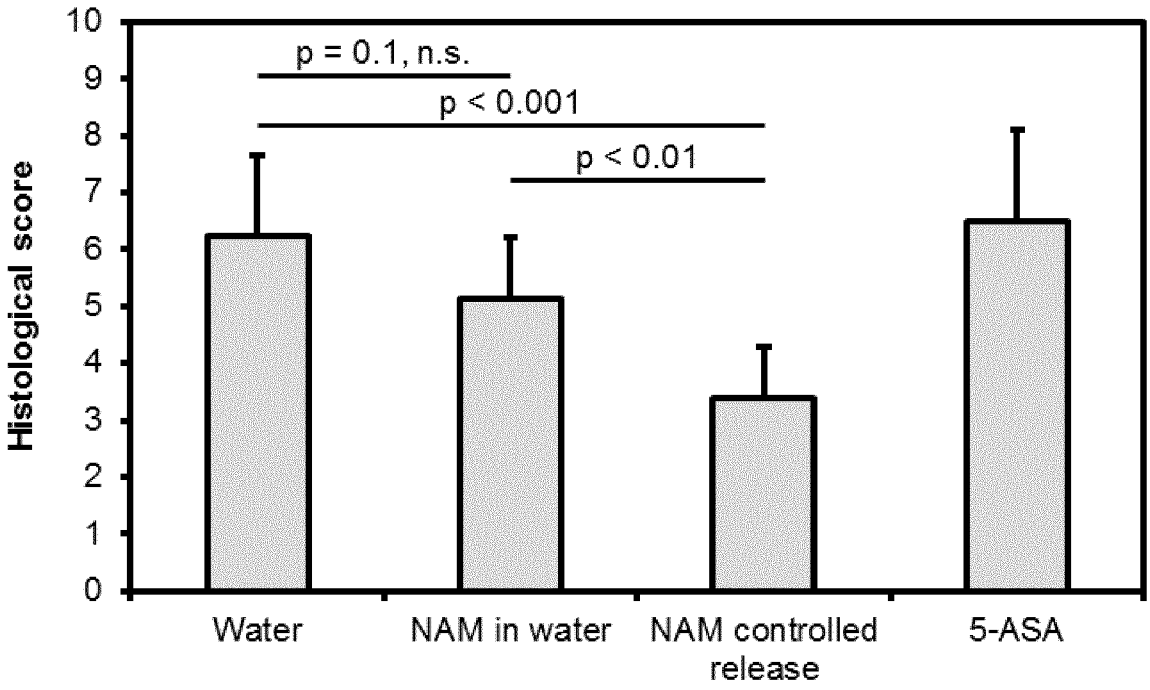

Histological score
10
9
8
7
6
5
4
3
2
1
0
p = 0.1, n.s.
p < 0.001
p < 0.01
Water
NAM in water
NAM controlled release
5-ASA

Fig. 3

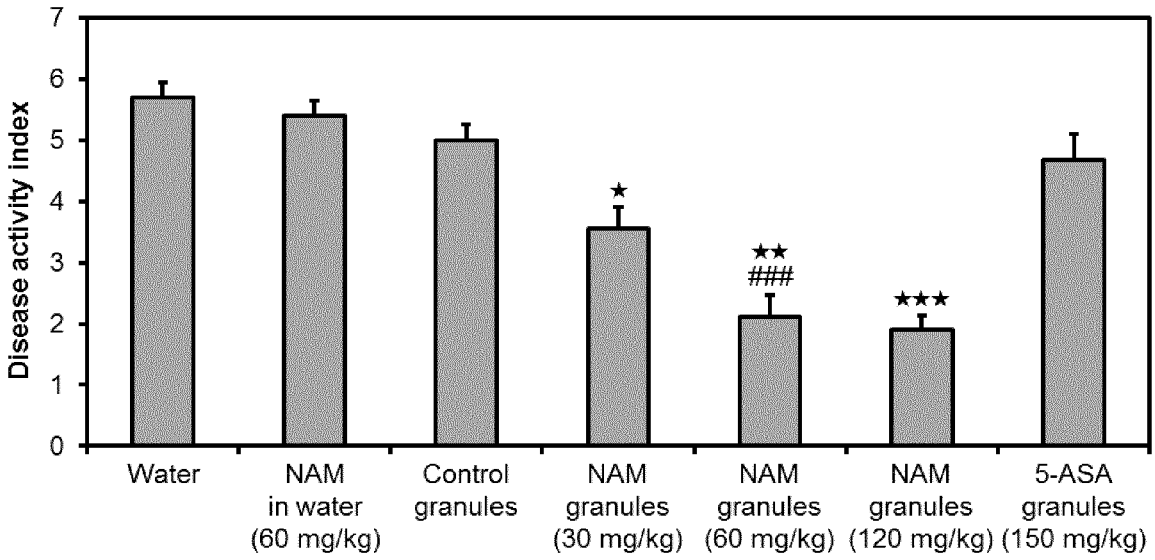

Disease activity index
7
6
5
4
3
2
1
0
★
★★
###
★★★
Water
NAM in water (60 mg/kg)
Control granules
NAM granules (30 mg/kg)
NAM granules (60 mg/kg)
NAM granules (120 mg/kg)
5-ASA granules (150 mg/kg)

Fig. 4

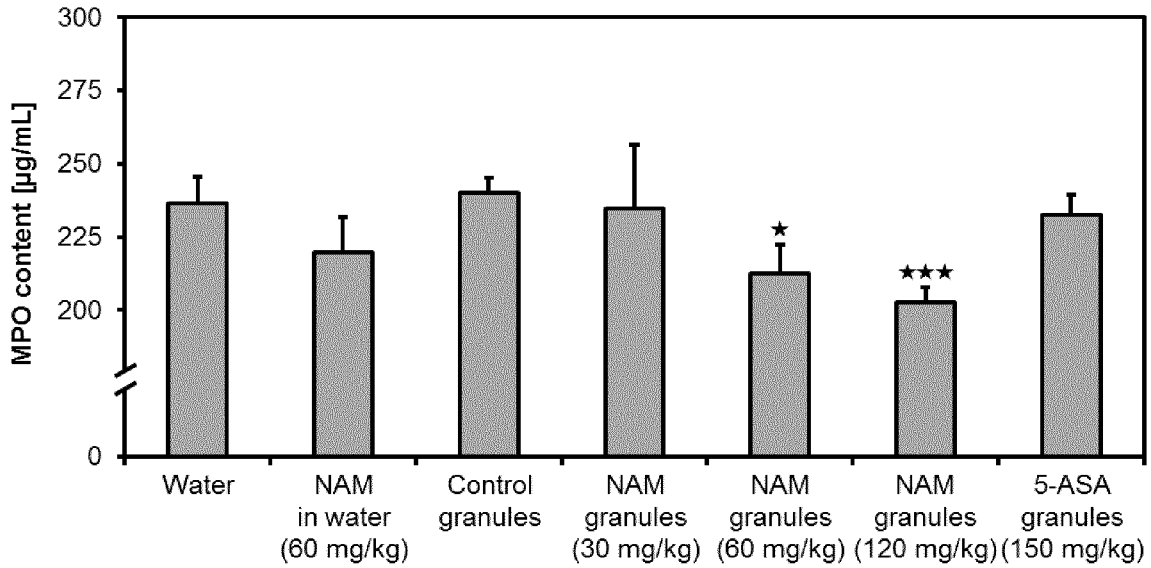

MPO content [µg/mL]
300
275
250
225
200
0
★
★★★
Water
NAM in water (60 mg/kg)
Control granules
NAM granules (30 mg/kg)
NAM granules (60 mg/kg)
NAM granules (120 mg/kg)
5-ASA granules (150 mg/kg)

Fig. 5

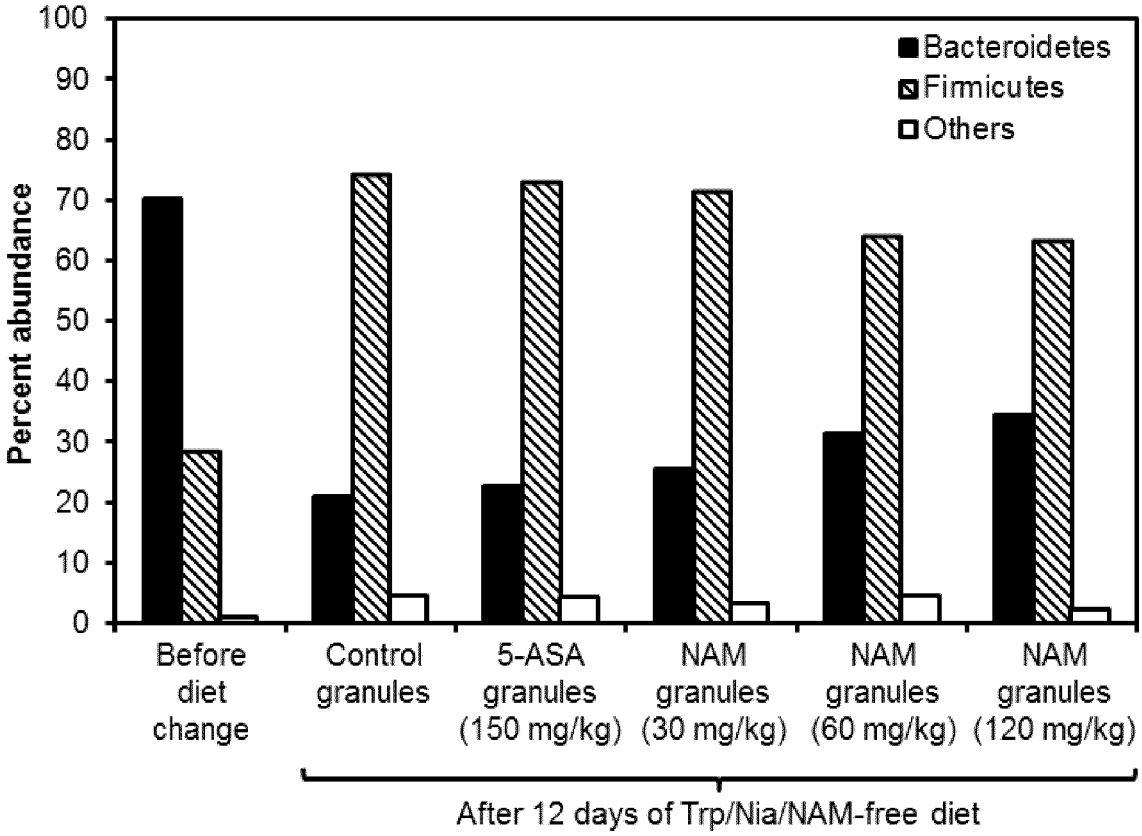

100
90
80
70
60
50
40
30
20
10
0
Percent abundance
Bacteroidetes
Firmicutes
Others
Before diet change
Control granules
5-ASA granules (150 mg/kg)
NAM granules (30 mg/kg)
NAM granules (60 mg/kg)
NAM granules (120 mg/kg)
After 12 days of Trp/Nia/NAM-free diet

Fig. 6

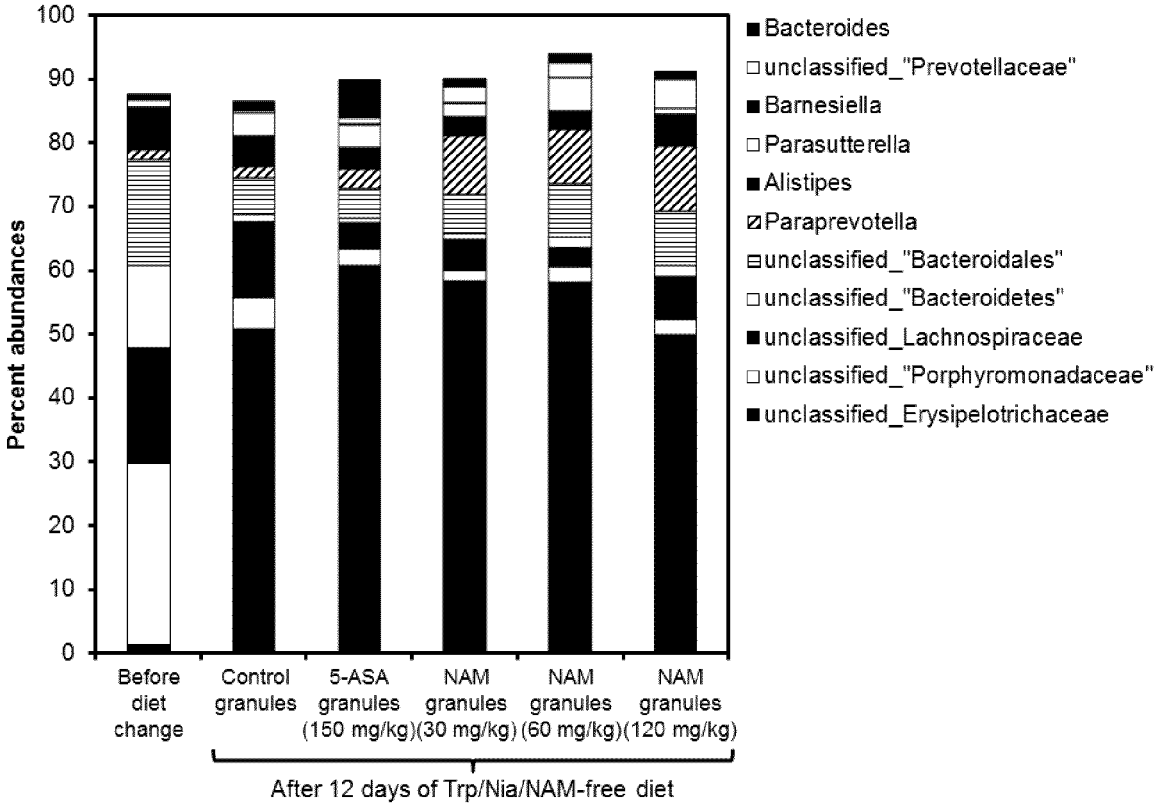

100
90
80
70
60
50
40
30
20
10
0
Percent abundances
Before diet change
Control granules
5-ASA granules (150 mg/kg)
NAM granules (30 mg/kg)
NAM granules (60 mg/kg)
NAM granules (120 mg/kg)
After 12 days of Trp/Nia/NAM-free diet
Bacteroides
unclassified_"Prevotellaceae"
Barnesiella
Parasutterella
Alistipes
Paraprevotella
unclassified_"Bacteroidales"
unclassified_"Bacteroidetes"
unclassified_Lachnospiraceae
unclassified_"Porphyromonadaceae"
unclassified_Erysipelotrichaceae

Fig. 7