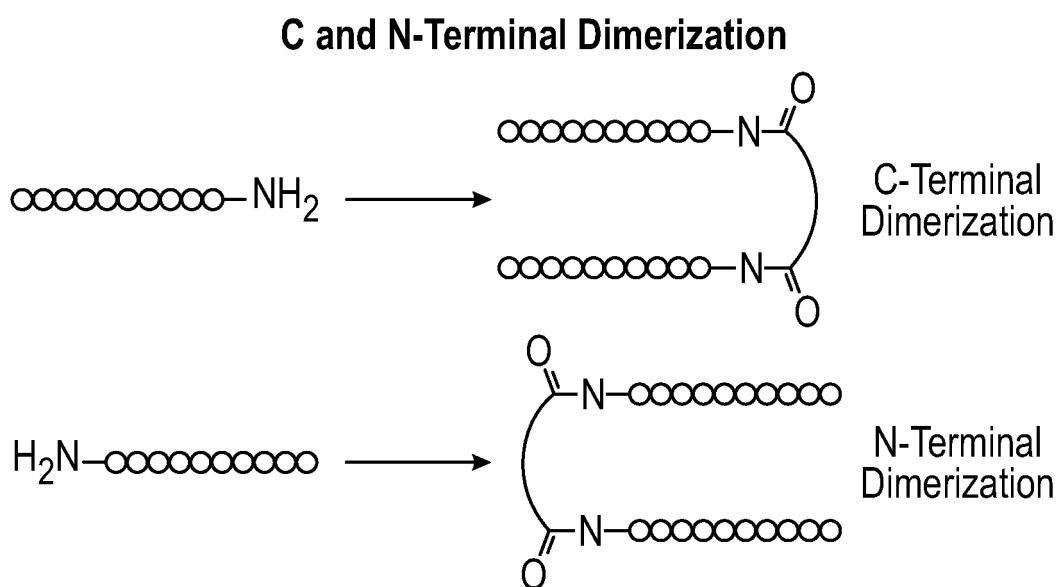


1/24

*FIG. 1*

2/24

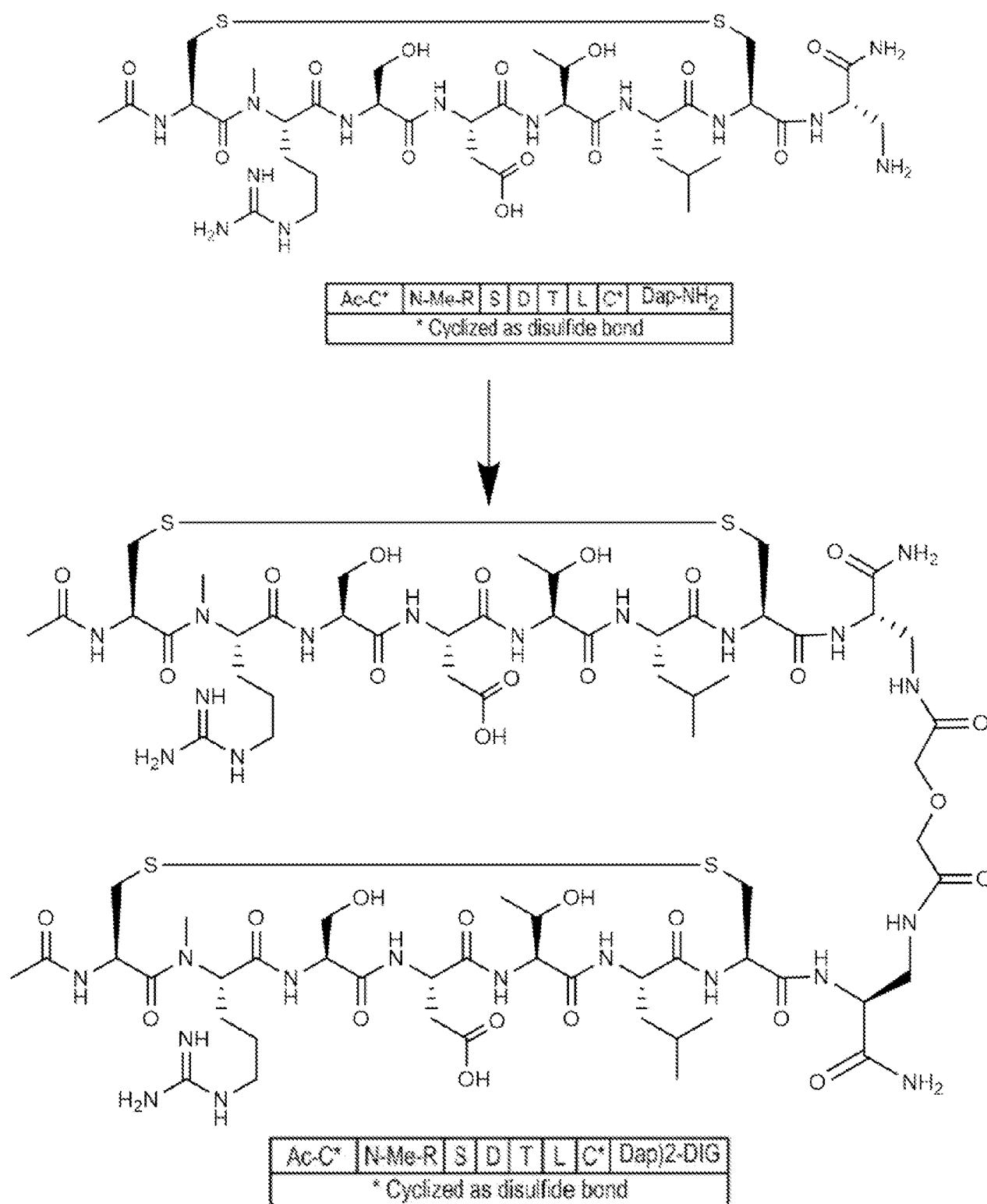
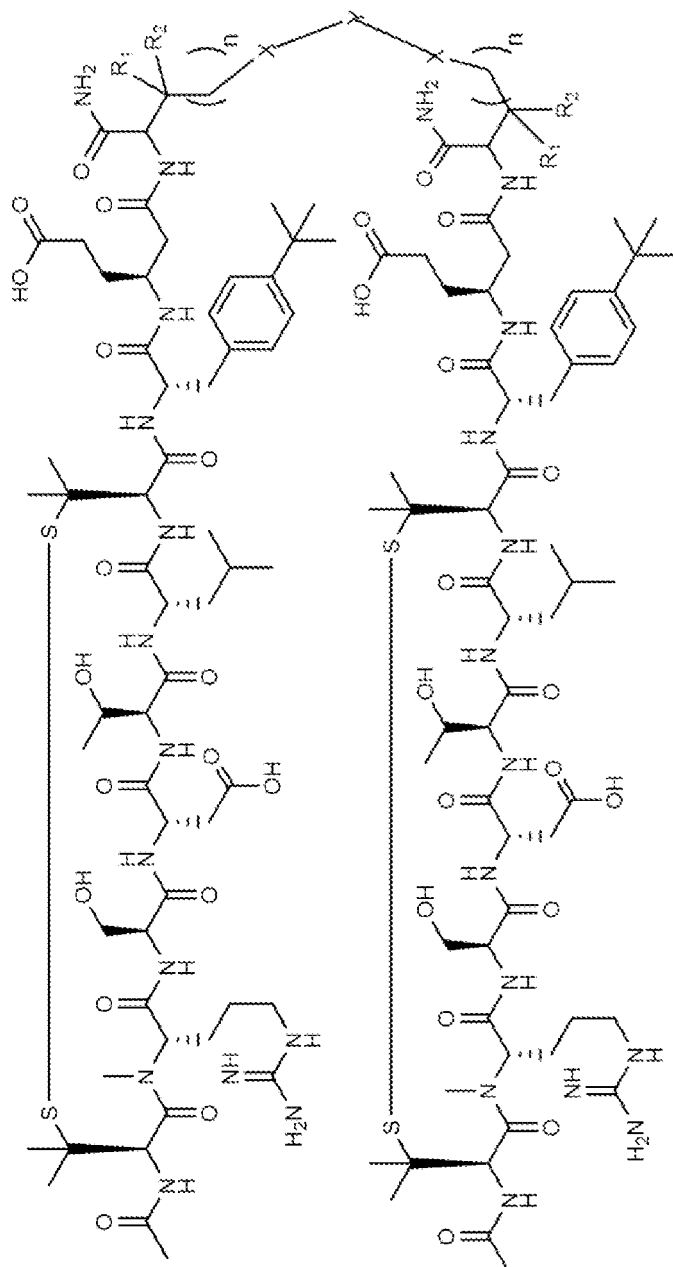
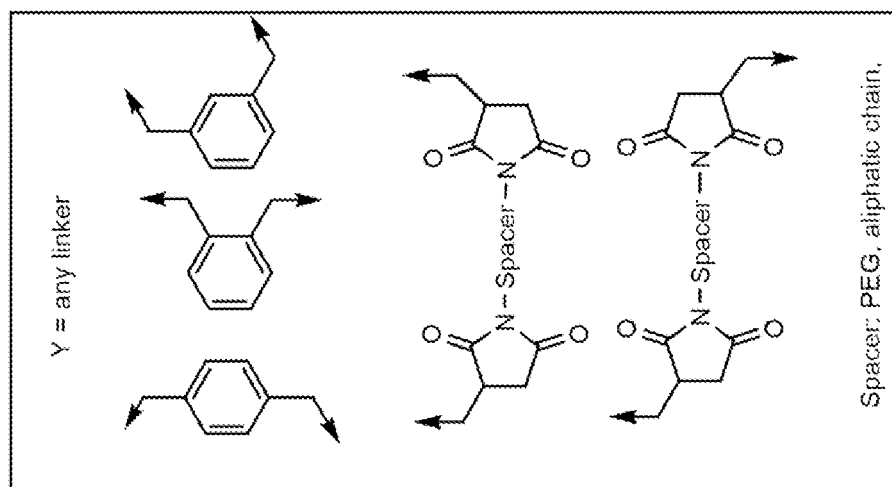


FIG. 2

3/24



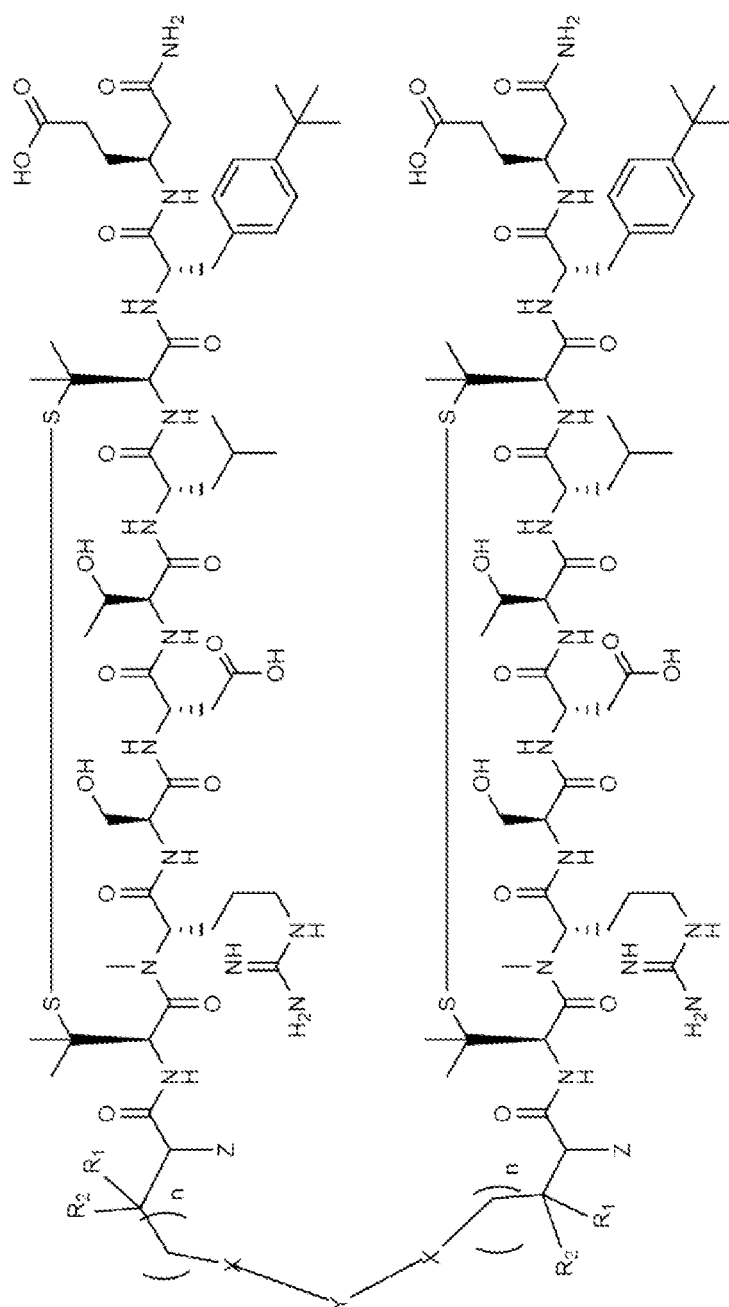
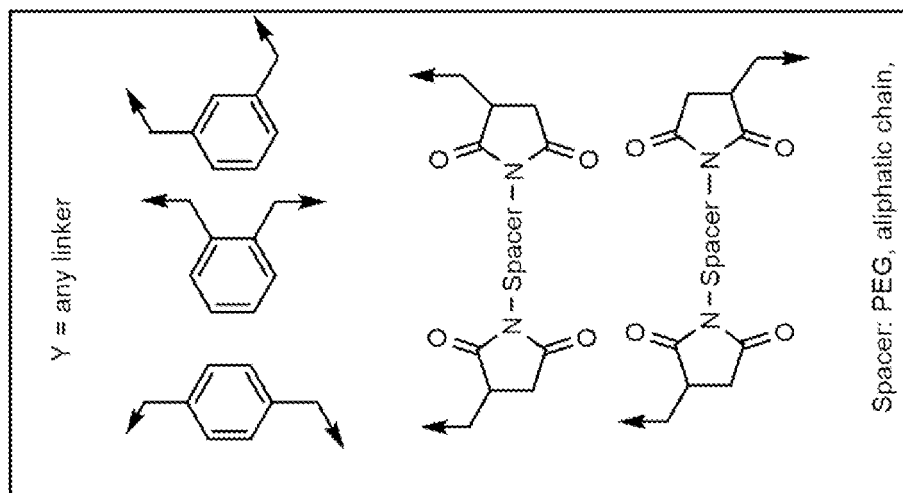
R_1 and R_2 are H OR ME

N is any integer from 2 to 10

X is CH_2 , $NHCO$, $CONH$, $S-S$, $C=O$, $CHOH$, S , $S=O$, NH , or O

FIG. 3A

4/24



R_1 and R_2 are H or ME

N is any integer from 2 to 10

X is CH_2 , NHCO , CONH , S-S , C=O , CHOH , S , S=O , NH , or O

Z is NHAc , absent or H

FIG. 3B

5/24

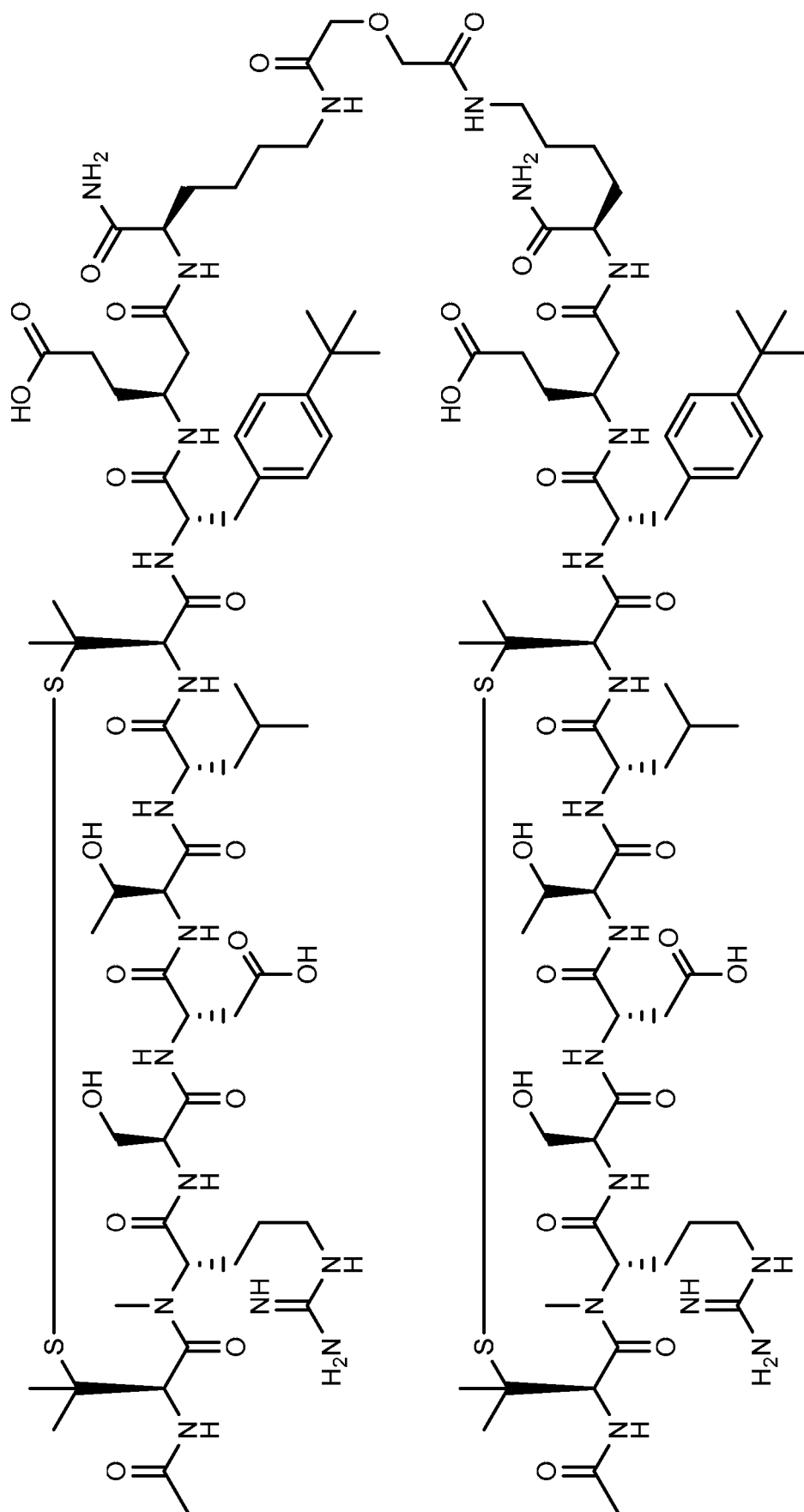


FIG. 4

Intestinal half-life					Gastric half-life	Plasma half-life	Metabolism			
	SIF	RIW	HIF	CW	IMH	CMH	SGF	Rat	Hu S9	RL S9
	11 h	>5 h	>24 h	>6 h	>6 h	>6 h	>5 h	>5 h	>6 h	>6 h

SIF- simulated intestinal fluid (porcine)
RIW- rat intestinal wash
HIF- human intestinal fluid
CW- colonic wash (rat)
IMH- intestinal mucosal homogenate (rat)
CMG- colonic mucosal homogenate (rat)
SGF- simulated gastric fluid (porcine)
Hu S9- human intestinal S9 fraction
RL S9- rat liver S9

Microbiome stability of closely related peptides

- Stable after 48 hr. incubation in anaerobic cultures of *C. difficile*, *B. fragilis*, *E. coli*, *B. bifidum*, and *L. acidophilus*
- No evidence of antimicrobial activity against 19 different intestinal bacteria grown under anaerobic conditions.

FIG. 5

7/24

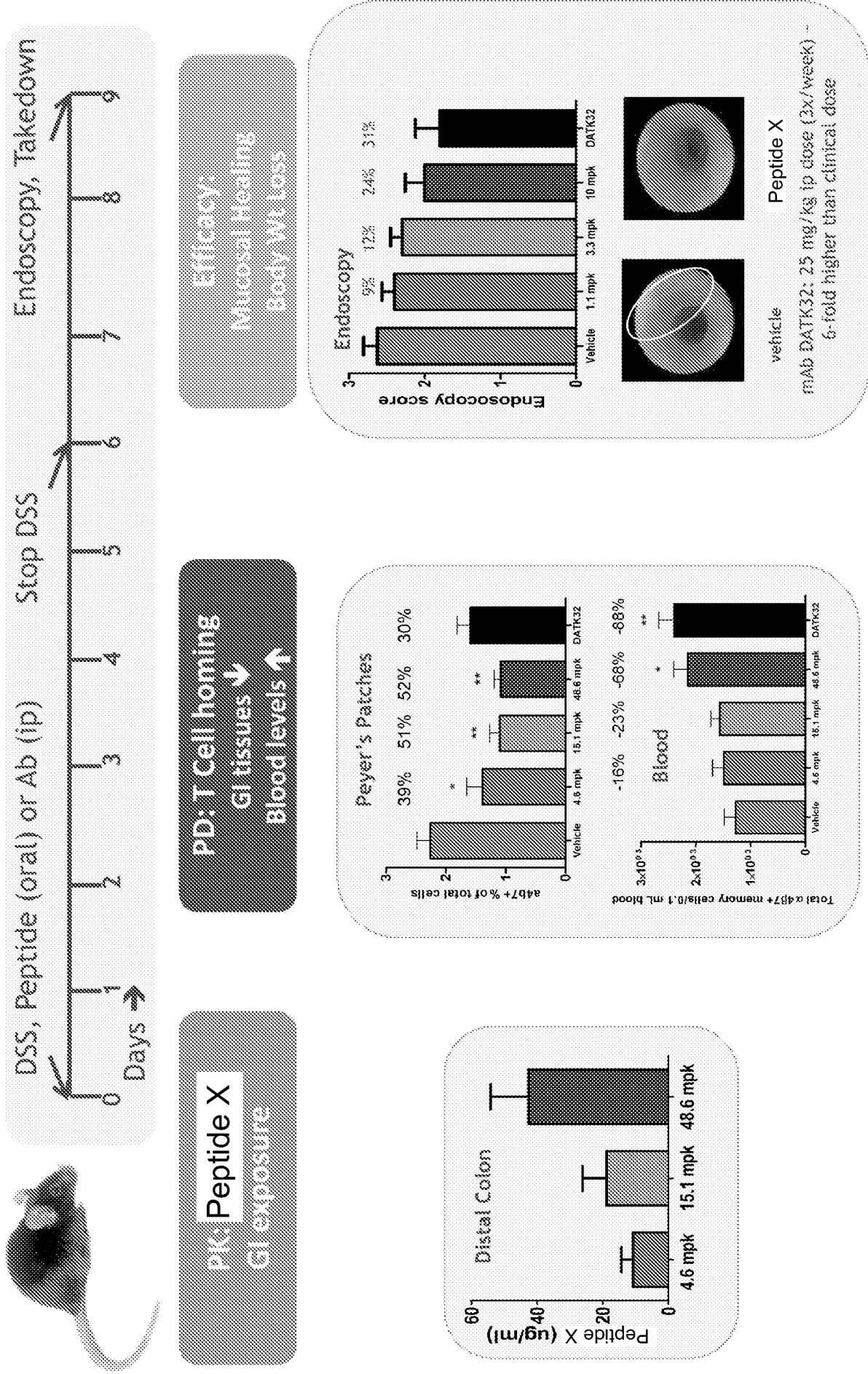


FIG. 6

8/24

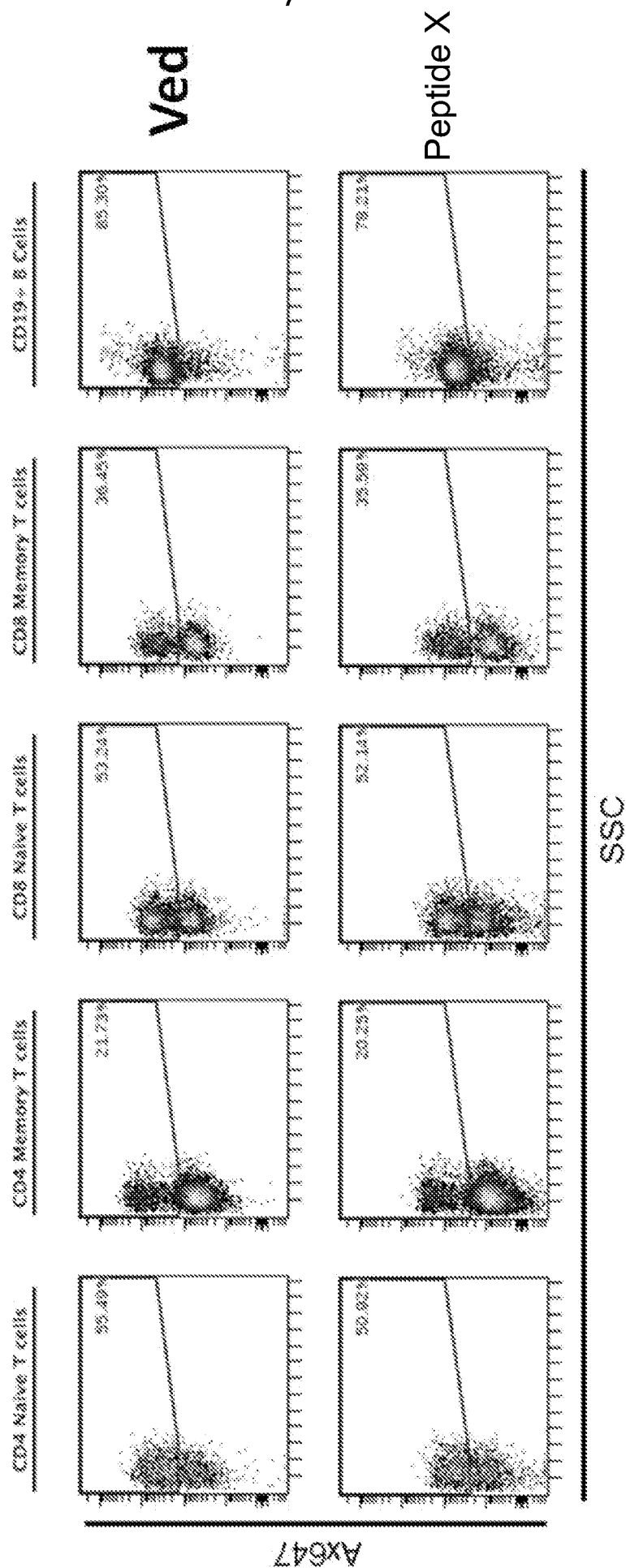


FIG. 7

9/24

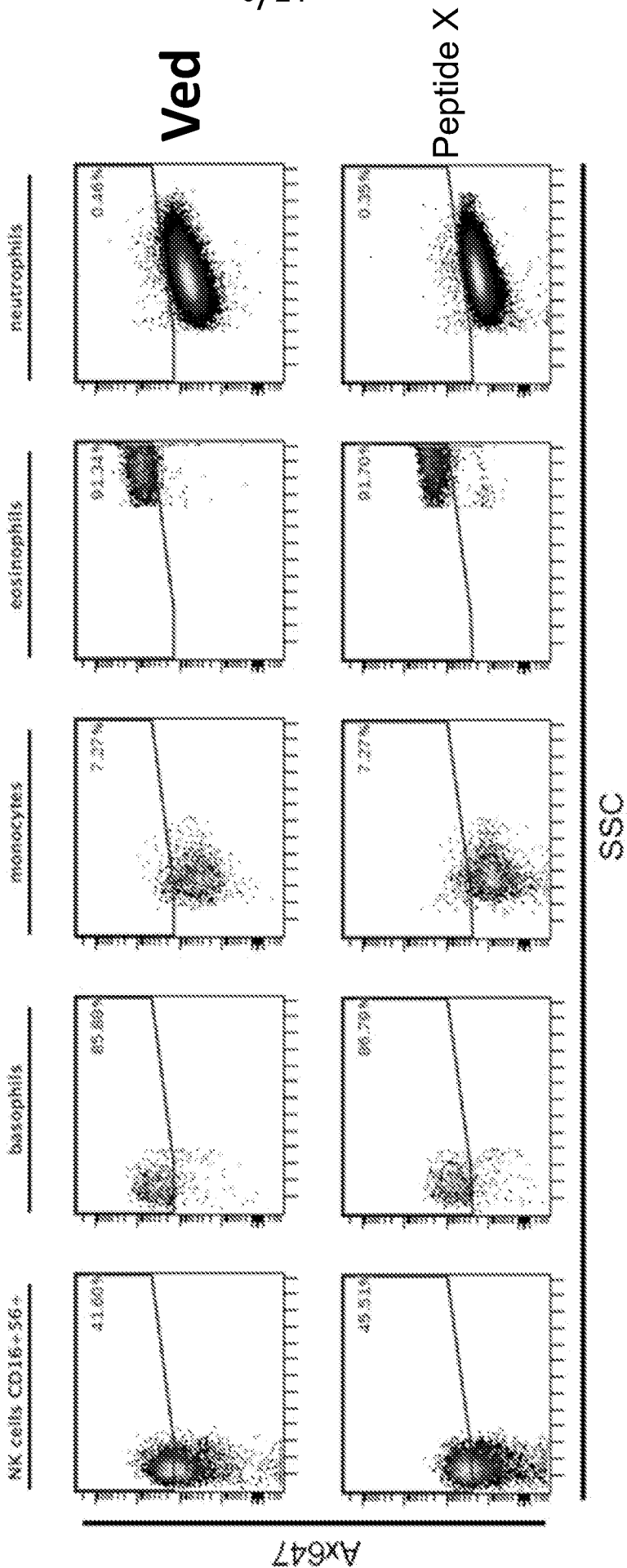
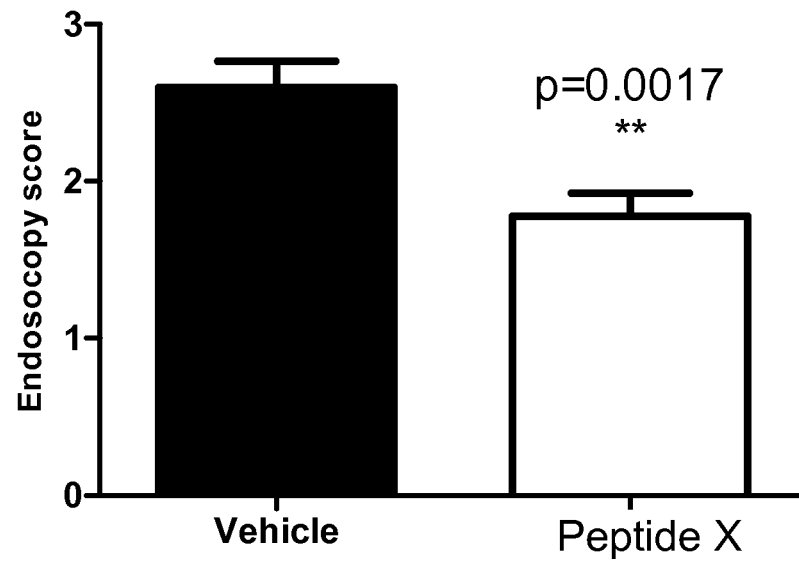
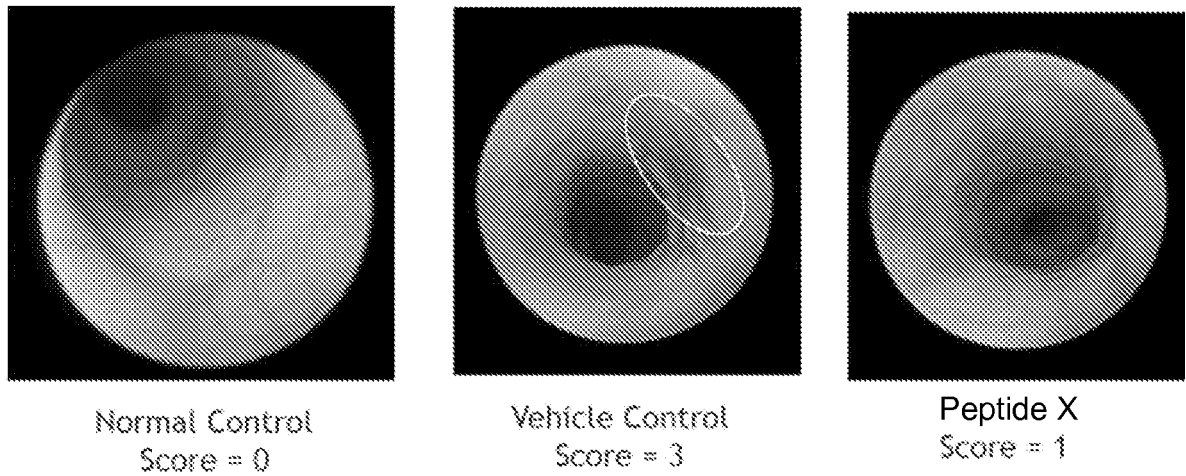
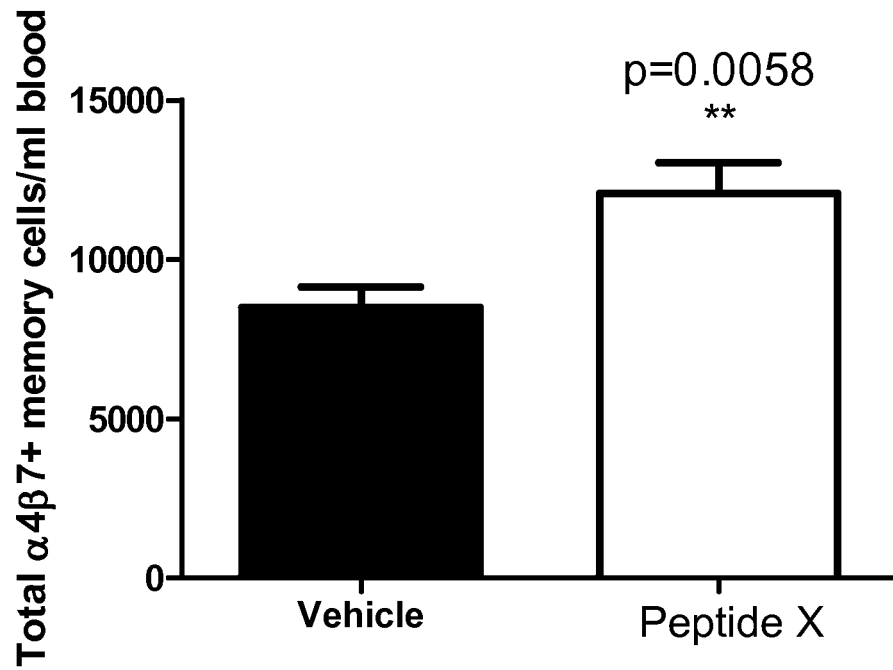
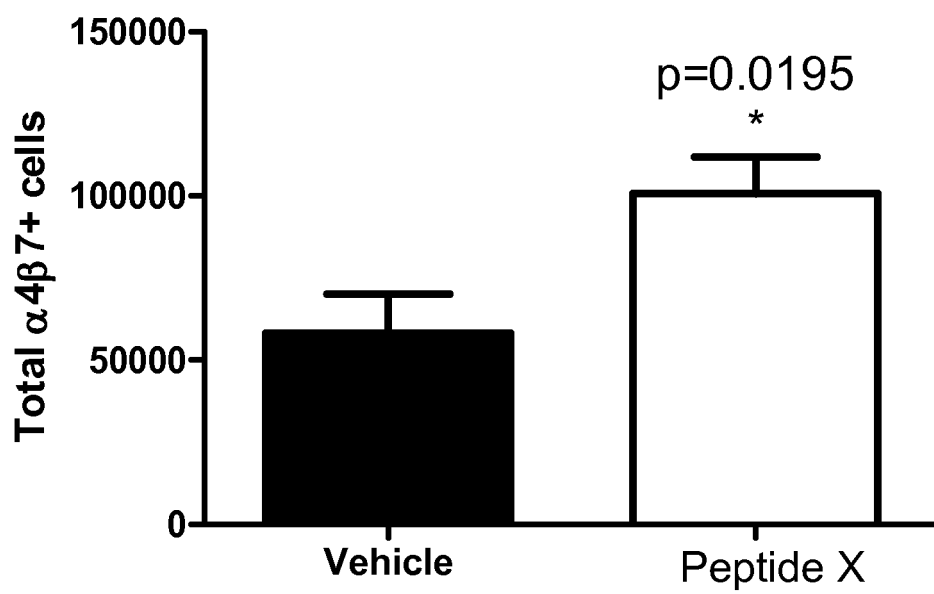


FIG. 7 (Continued)

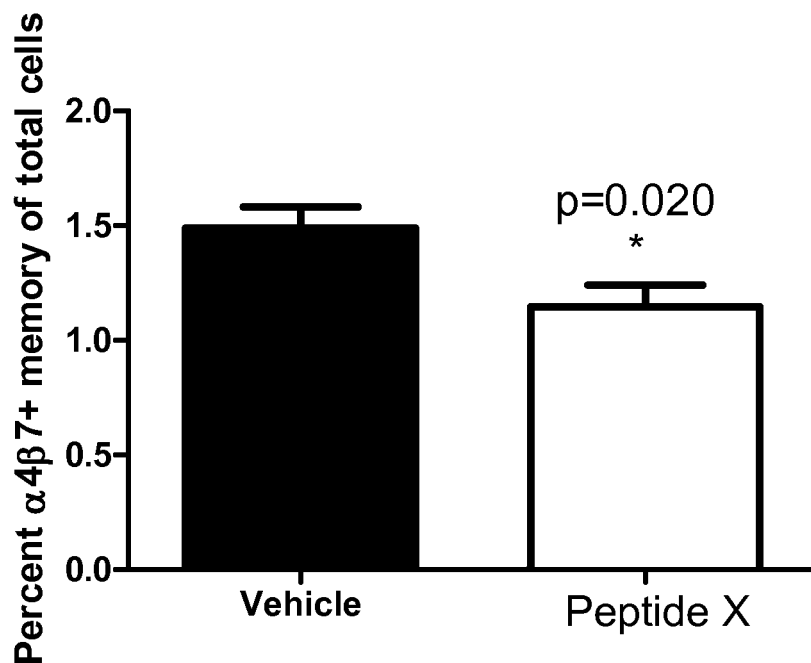
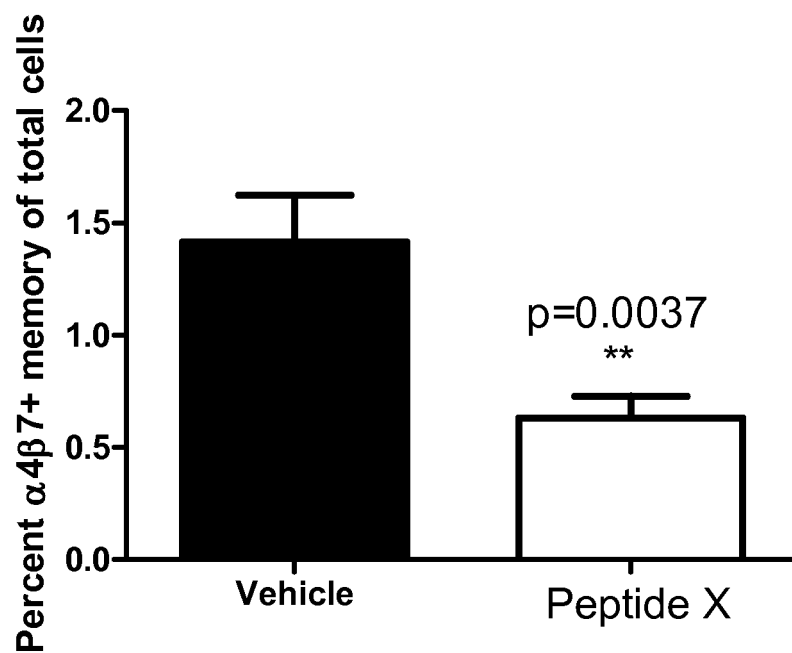
10/24

*FIG. 8**FIG. 9*

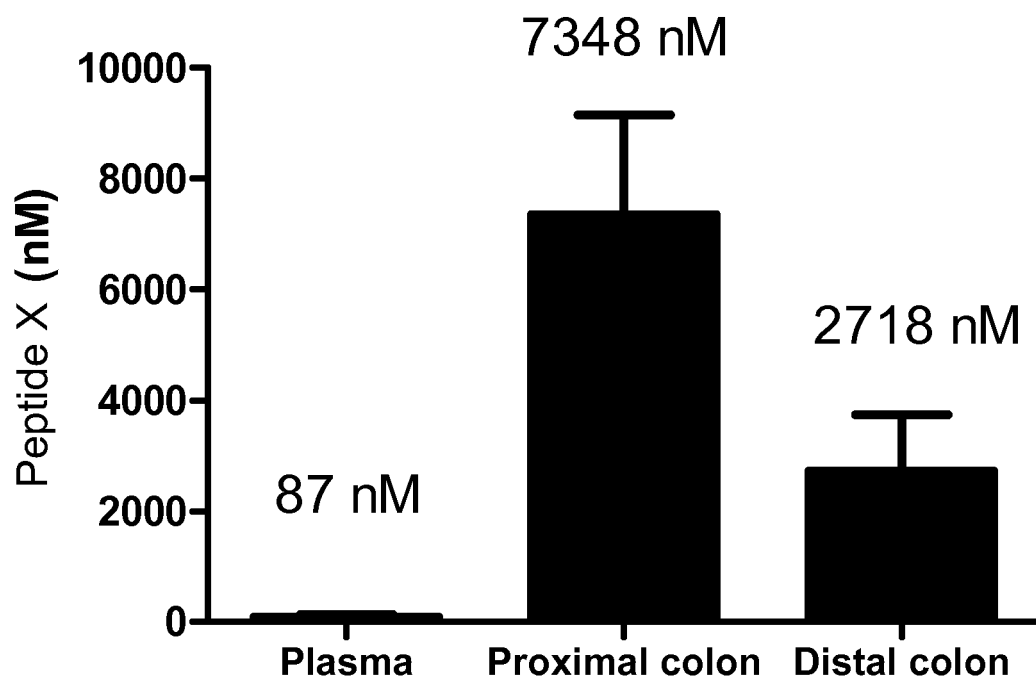
11/24

*FIG. 10A**FIG. 10B*

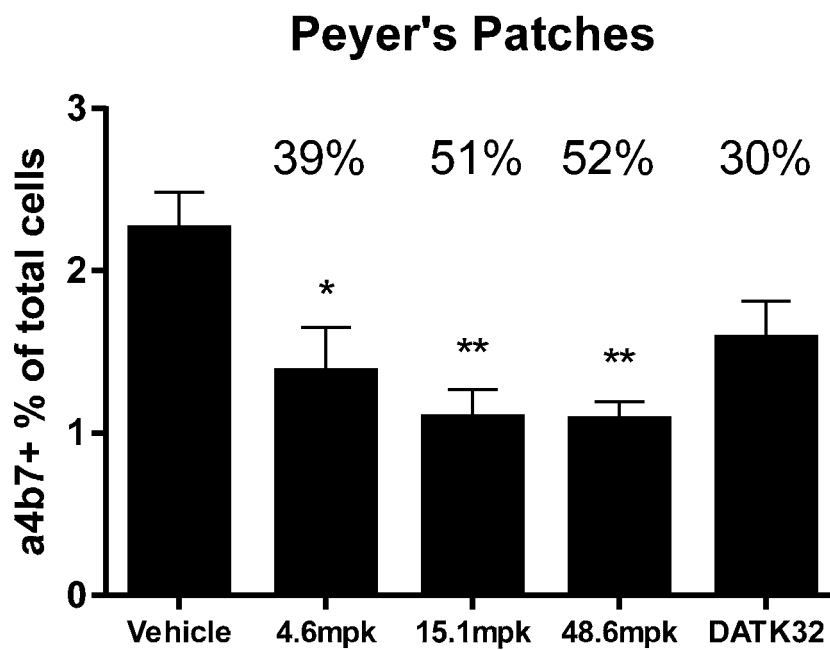
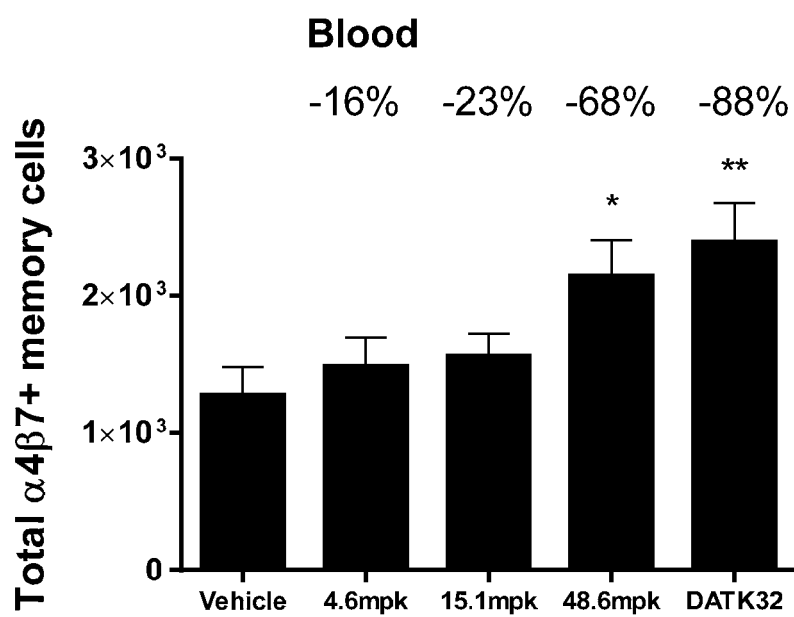
12/24

*FIG. 11A**FIG. 11B*

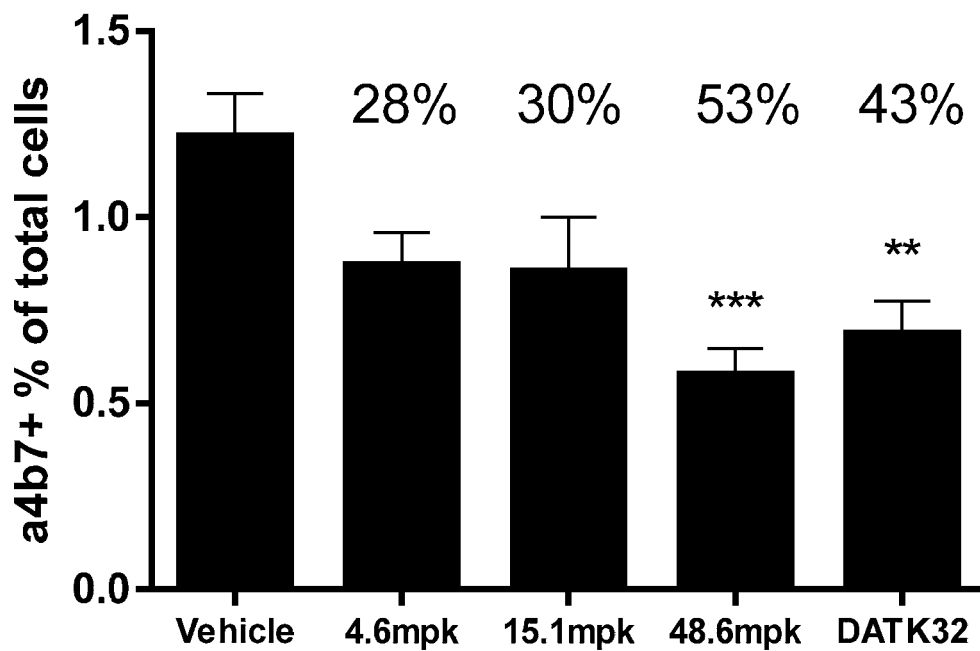
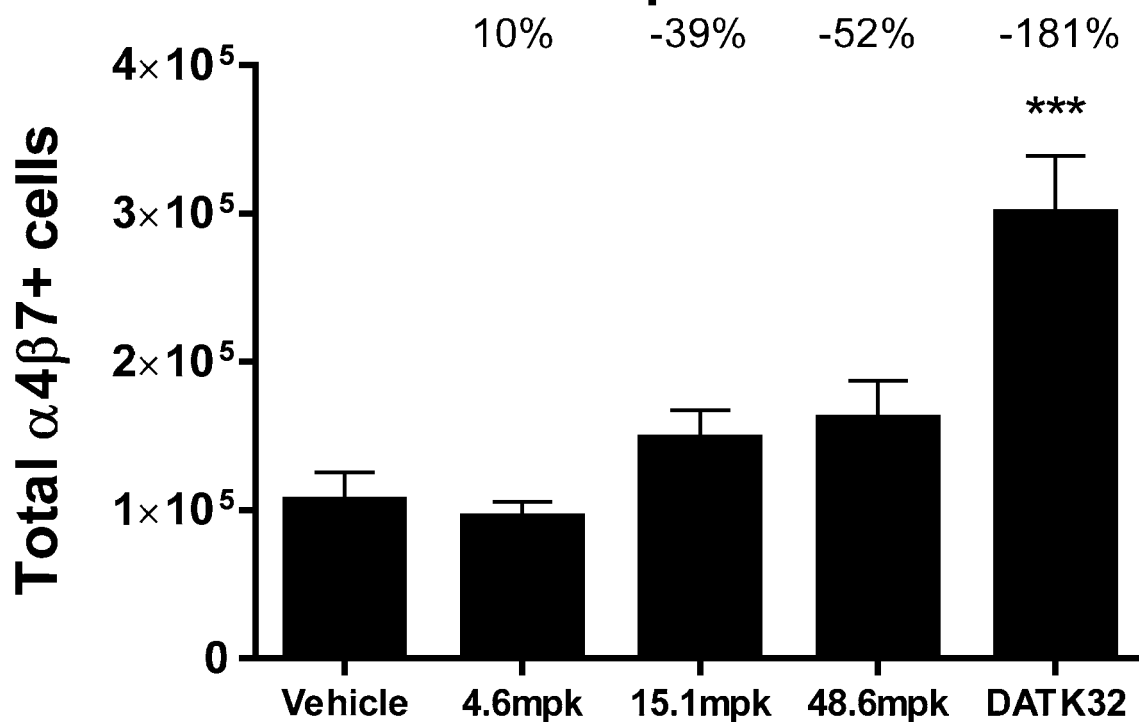
13/24

*FIG. 12*

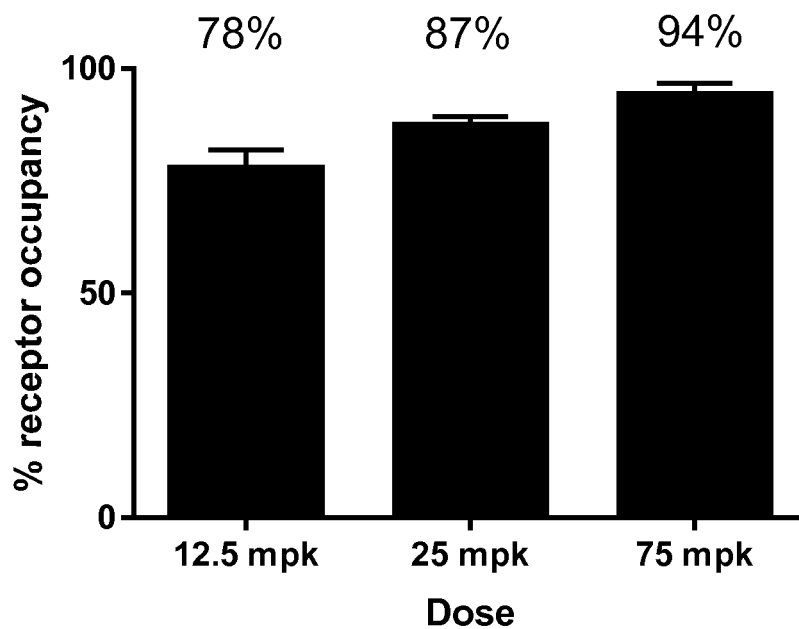
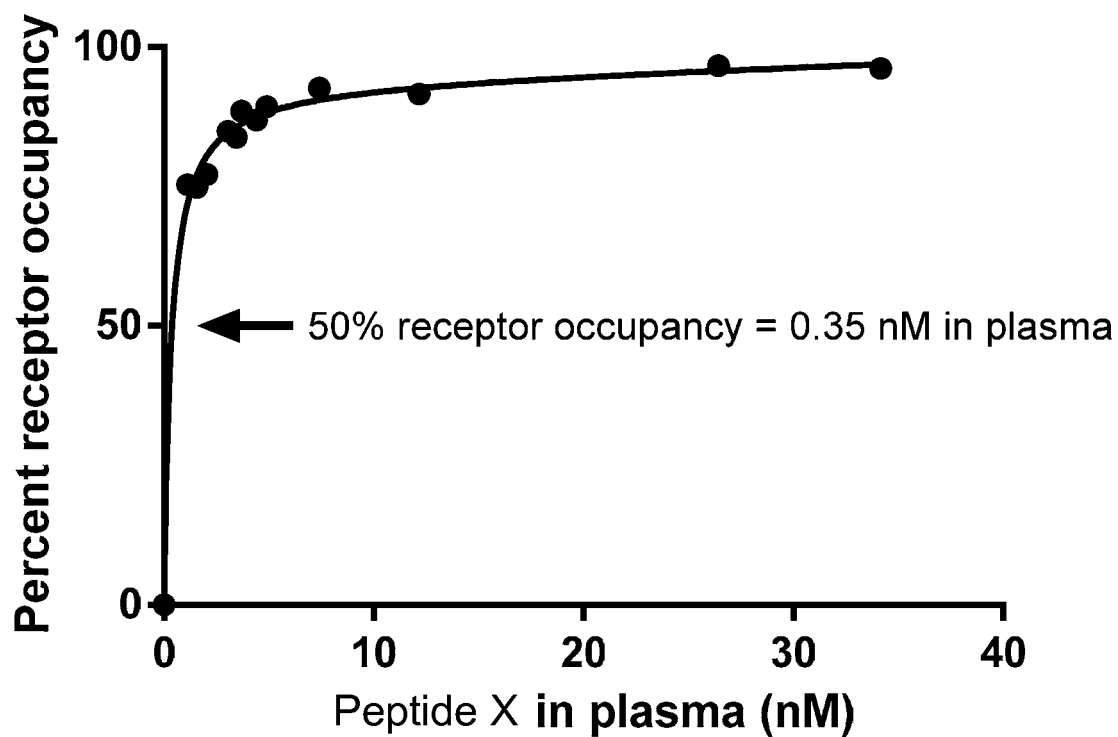
14/24

*FIG. 13A**FIG. 13B*

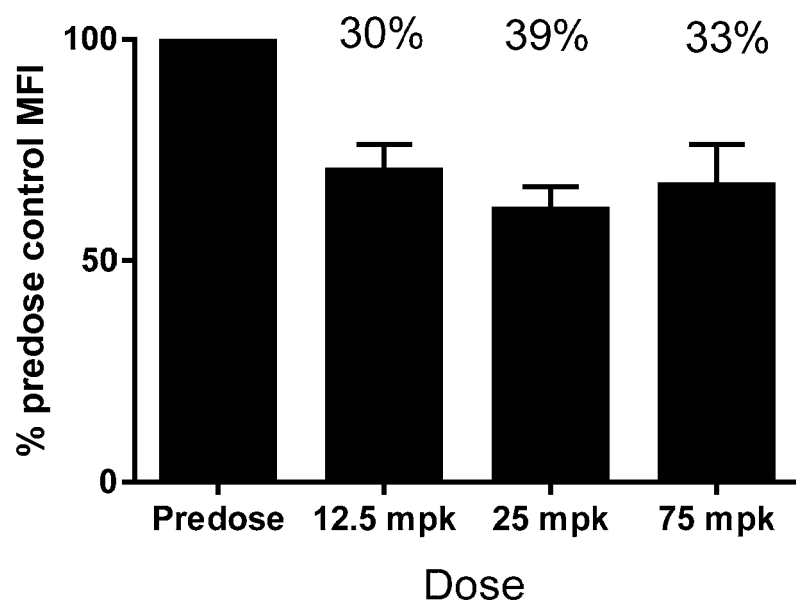
15/24

MLN*FIG. 13C***Spleen***FIG. 13D*

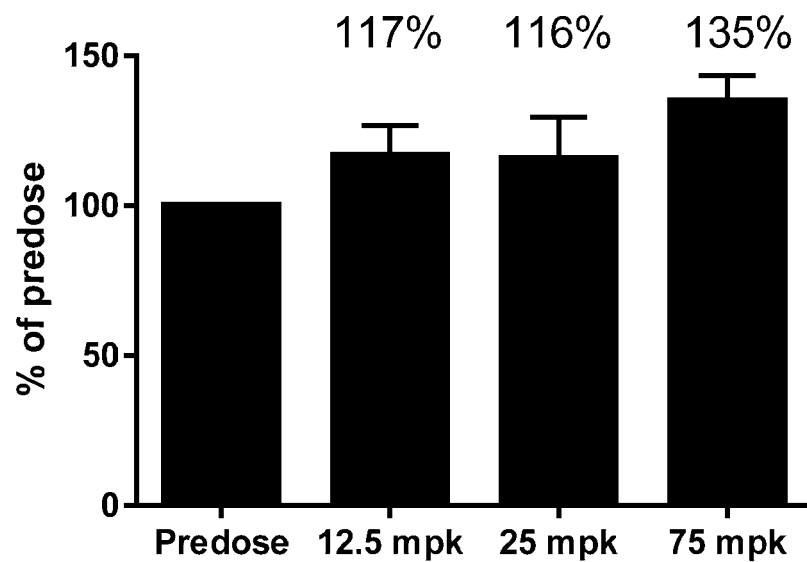
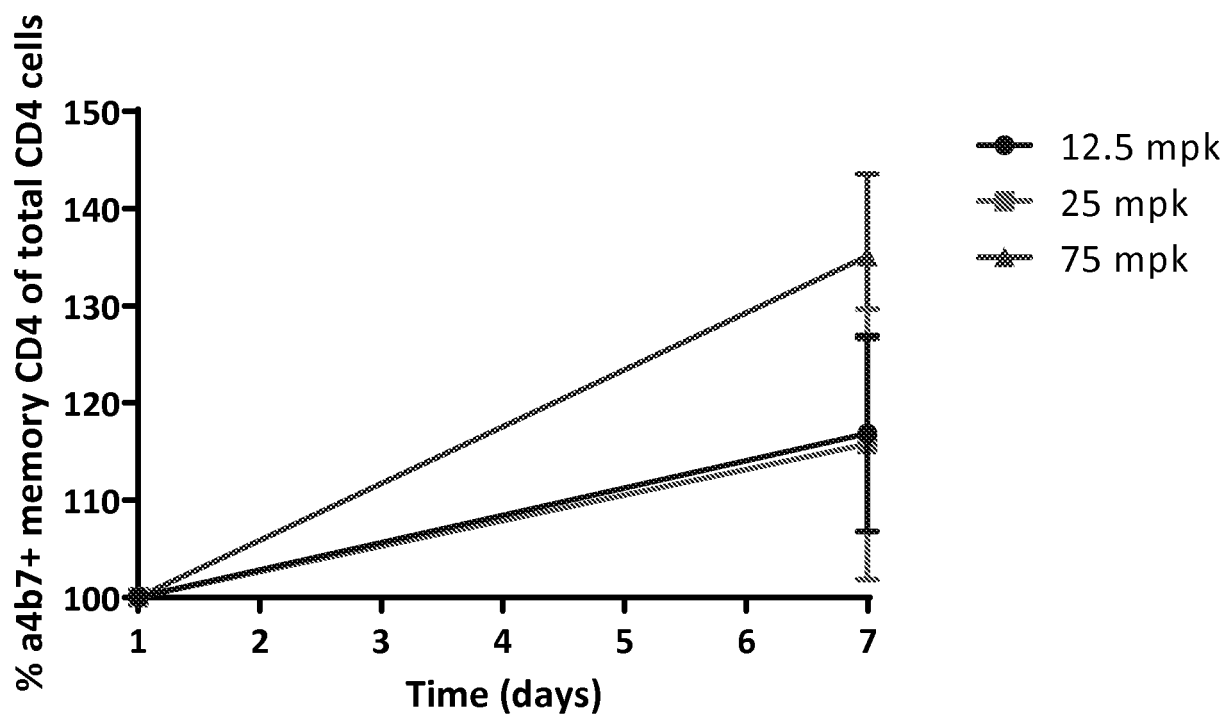
16/24

*FIG. 14**FIG. 15*

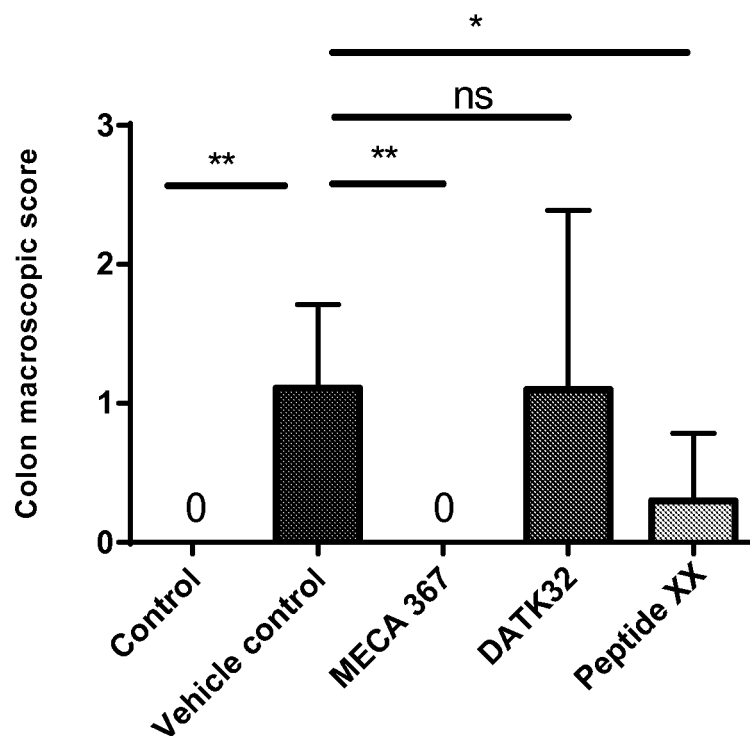
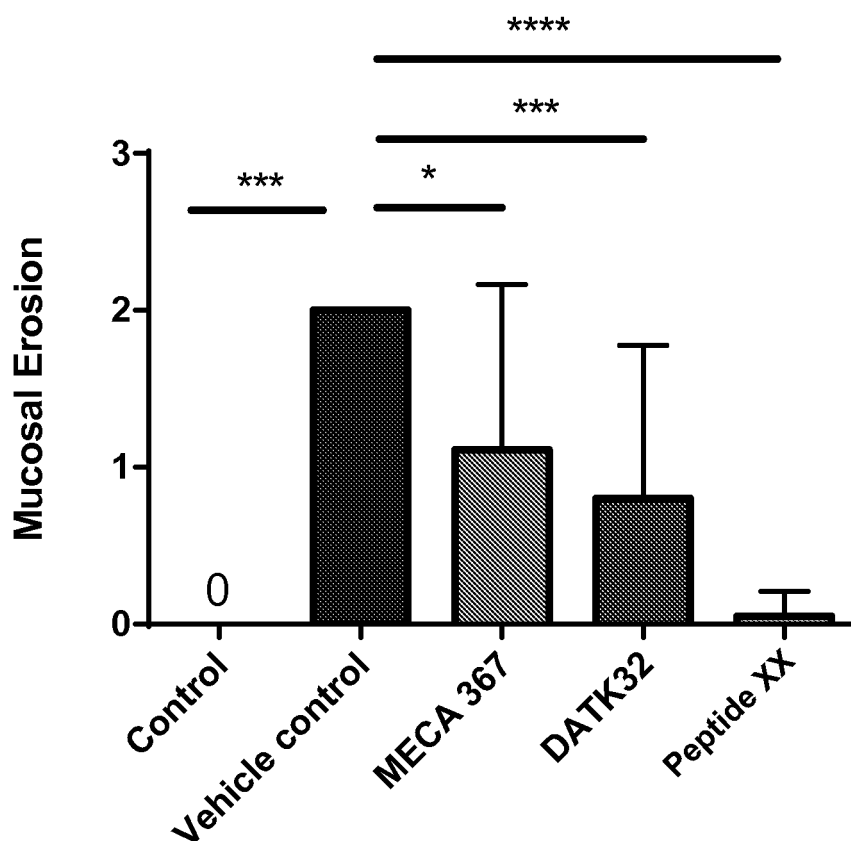
17/24

*FIG. 16*

18/24

*FIG. 17A**FIG. 17B*

19/24

*FIG. 18A**FIG. 18B*

20/24

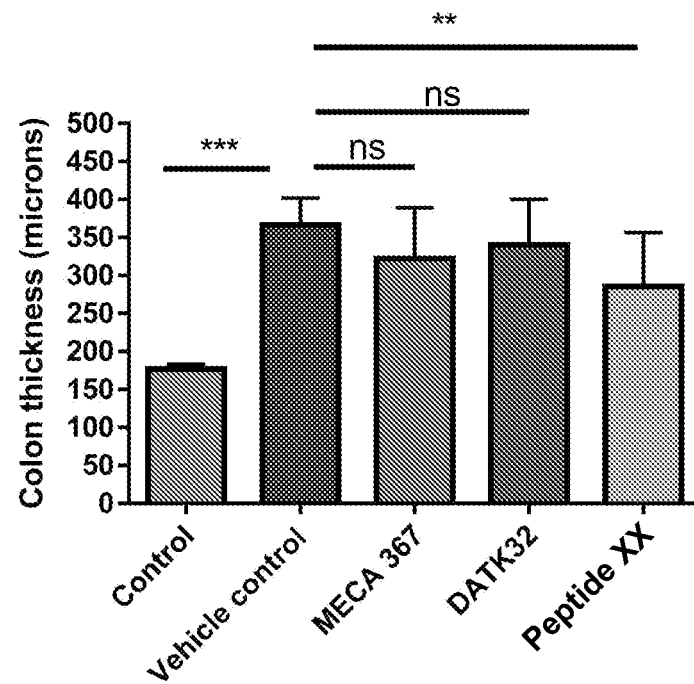


FIG. 18C

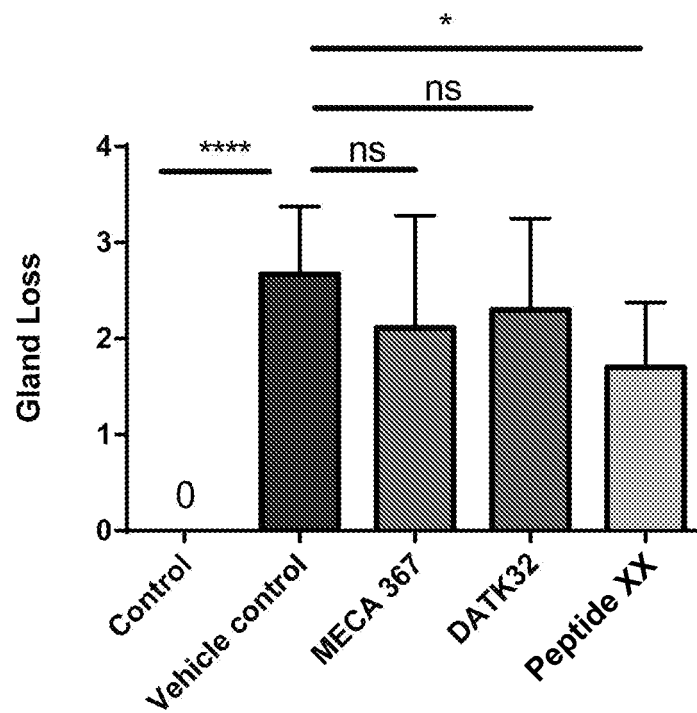
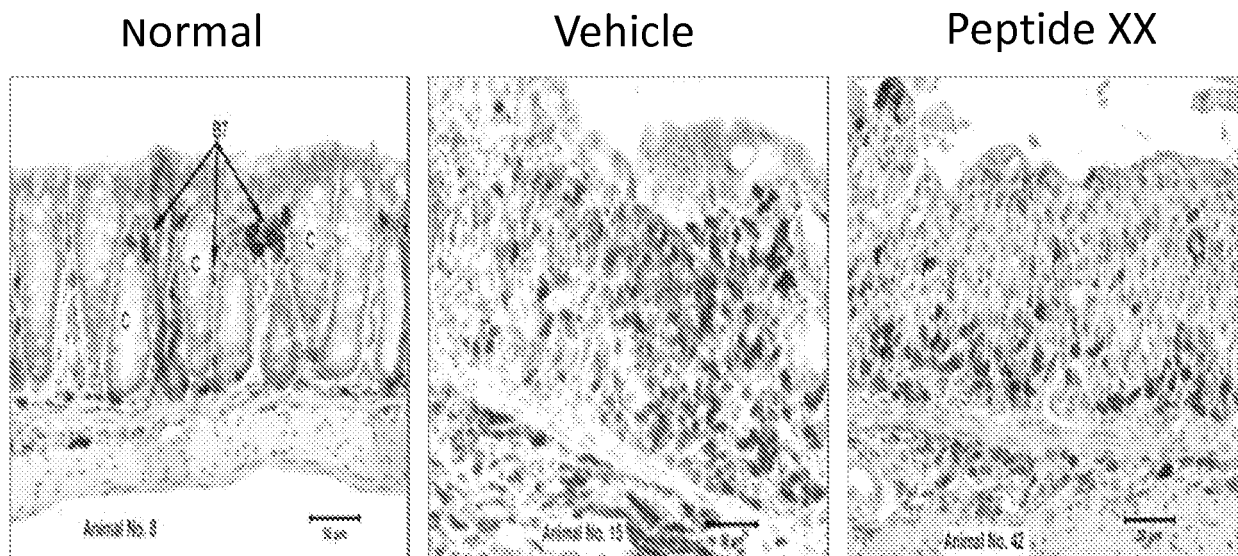
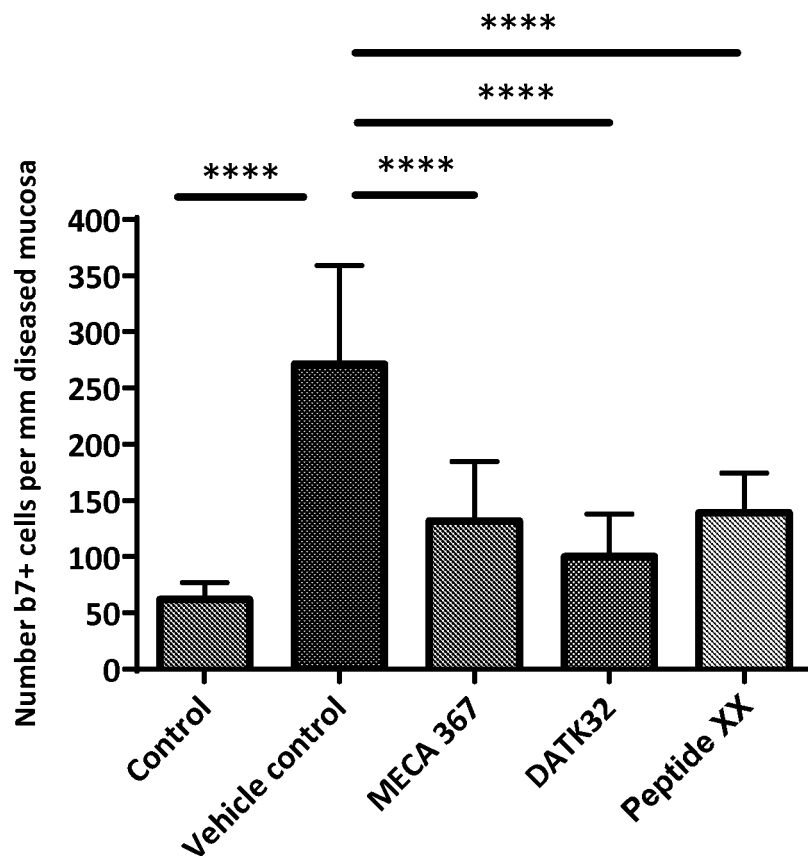
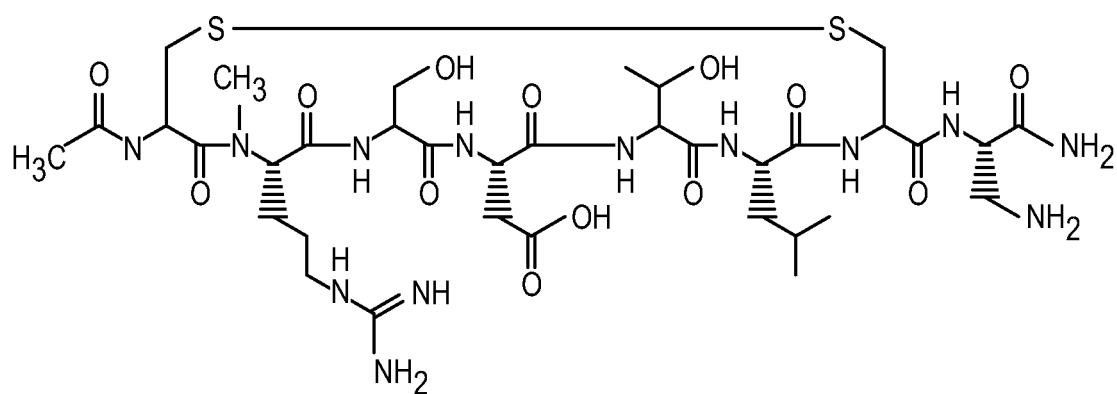


FIG. 18D

21/24

*FIG. 19A**FIG. 19B*

22/24



Ac-C*	N-Me-R	S	D	T	L	C*	Dap-NH ₂
* Cyclized as disulfide bond							

FIG. 20

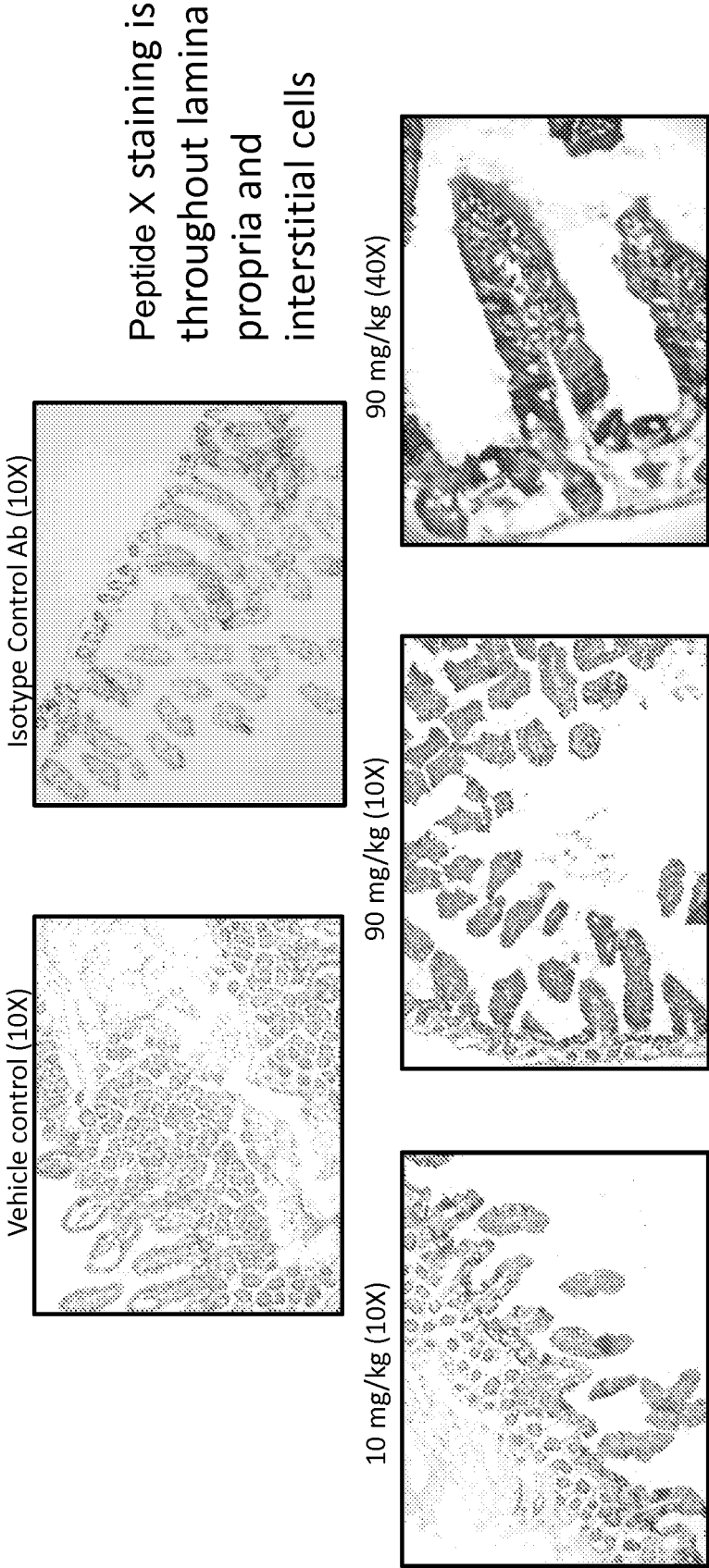
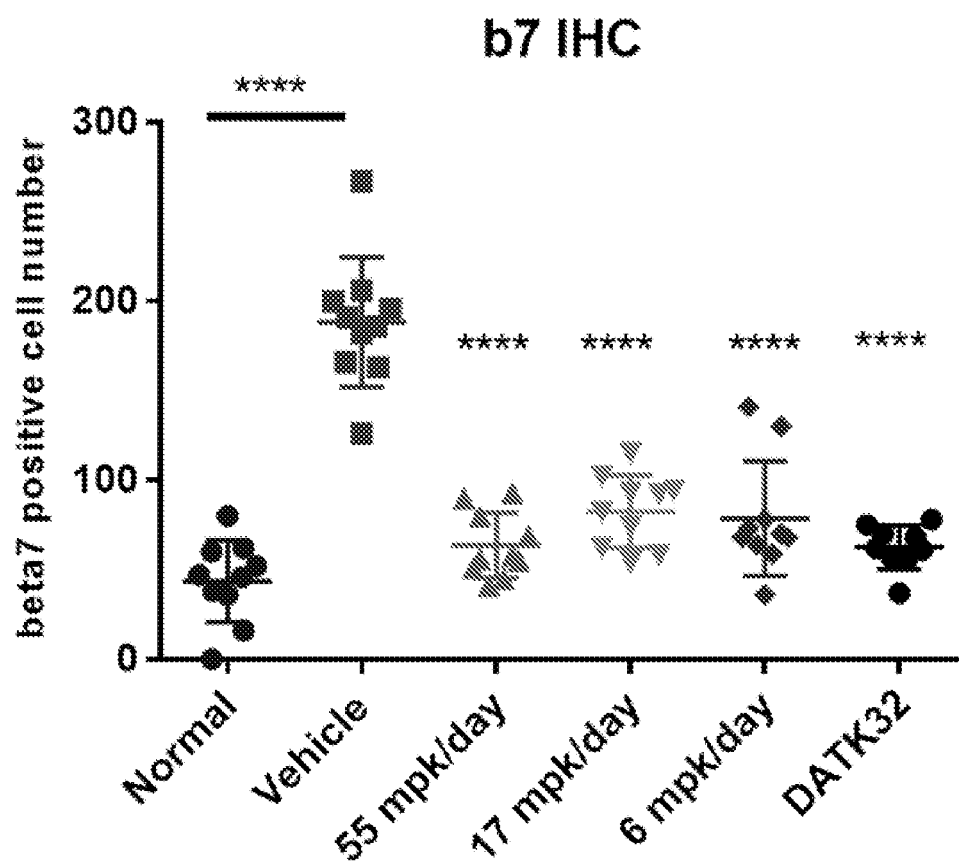


FIG. 21

24/24

 β 7+ cell infiltration into colon*FIG. 22*