

A C -BF



D , , H , H , C L , z *

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A 29 J 2015

ABSTRACT

I LL-37 CRAMP, .C .C (9(21.9 BC .5() .5() .6

w
A
I
A
NF-κB

2. M

2.1.

C-BF (KFFRKLKK KKRAKEFFKKPR IG IPF) z
 9-fl
 (F) A 396 z (A
 L , K , A) GLB (, C) L . N -fi
 C-BF , fi A 1200
 (A
 CA, A) F LCQ
 (F , J , CA, A) -
 1 / ()
 0.5 / () -80 C

2.2.

LP E 0111:B4
 -A
 1.25 / .FD4 -A
 (C , K). O-1, NF-κB 65
 -65 C z B ()
 C z , CA, A). I G
 B (, C).

2.3.

M ICR (22-27) L A
 C . A
 1
 C C A

2.4.

A
 : (), (4 /) C-BF- (LC-BF),
 (8 /) C-BF- (HC-BF), LP - (LP),
 C-BF LP (LC-BF + LP)
 C-BF LP (HC-BF + LP)
 / C-BF fi 2 / -10
 C-BF (200) LP
 6 , LP . O 6,
 LP , LC-BF + LP HC-BF + LP
 LP (10 / , 200) 1
 C-BF ;
 A . N 5 LP

2.5.

-α
 (M , H z , C) . ELI A

2.6.

I fi
 G) L A DM3000 M (L , z ,
 3.7.0.
 I J 23

3 . z
 C . 24 (. 1).

2. .
 FD4 20 / 1
 LP fi
 M D M M5 ()
 485 , 535) .
 40 / FD4 5120, 2560, 1280, 640, 320, 160,
 80, 40, 20, 10, 5 / PB
 FD4

2. .
 P
 E K (K G B ECH, N , C) .
 .L fi
 BCAP Q fi K (K G B ECH, N , C) .
 E D -PAGE
 P DF (M , B , MA, A).
 4 C
 :β- , O-1, , NF-κB 65,
 NF-κB 65. I G
 1 .

2. .
 RNA RNA (I L
), RNA fi
 N D ND-1000 (fi ,
 MA, A). RNA (R)
 . Q PCR O
 P TMR PCR (A B , F C , CA, A)
 F BR G M (RO) (R D)
 , M , G) . fi
 P P 5.0 (. 2).

2.10.
 IEC fi NEL ()
 , K G B ECH, N , C) . L
 z L DM3000
 500 5 fi
 (AI)

$$AI = \frac{(AC)/AC}{(IC) \times 100}$$

1	
G	H ()
G 0	N
G 1	G ()
G 2	E
G 3	M
G 4	D
G 5	D

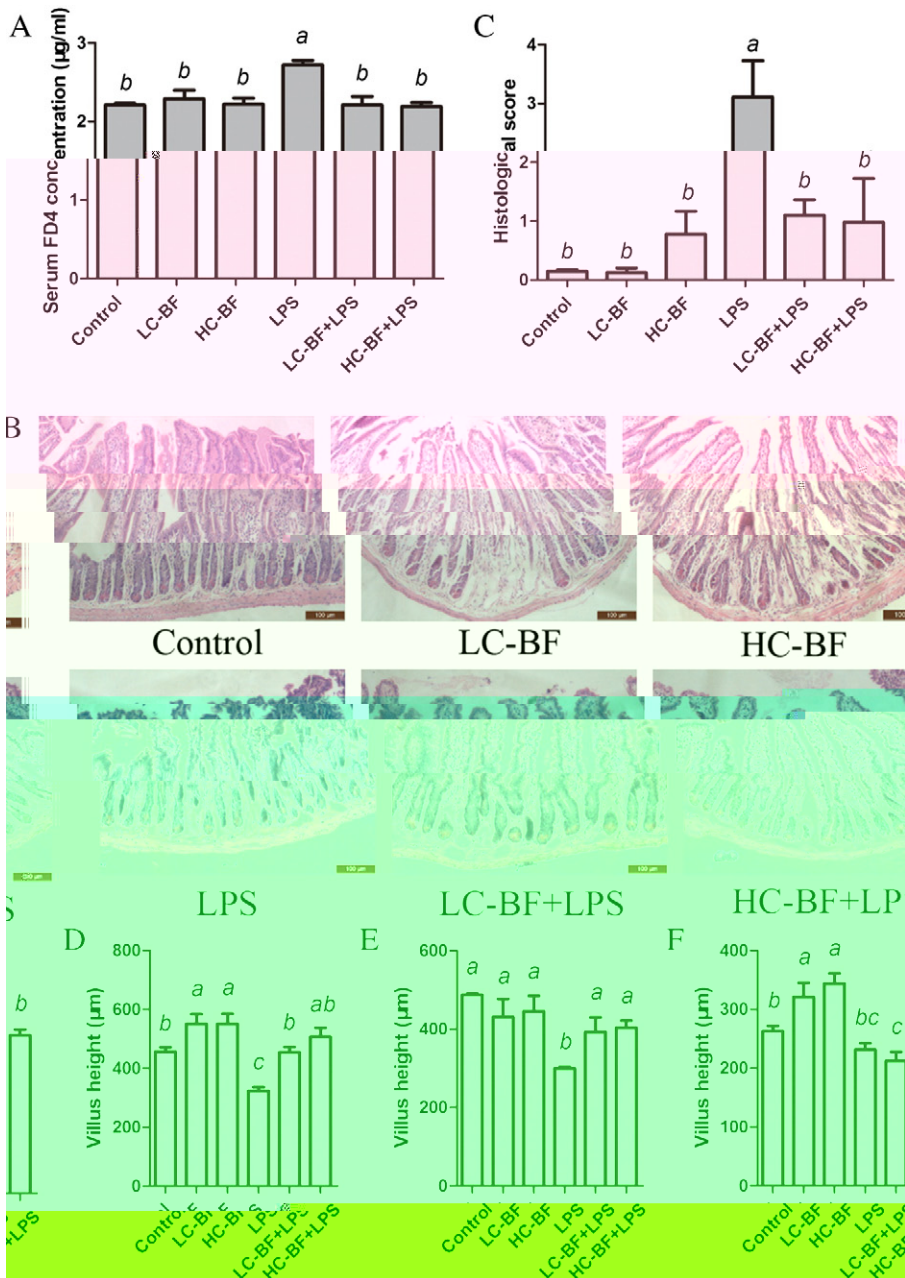
P	(5'-3')	(C)
NF- α	GCA GG GG GG G C GACGA	60
NF- α	GC C G GGACACC GGAGACA	
O-1	CA CCCAAA AAGAACAGAGC	60
O-1	GAAGAACACCC CA AAGC	
O	C GGC ACGGAGG GGC A	60
O	C GGC GC C GGC C G	
GAPDH	CAACGGCACAG CAAGGC GAGA	60
GAPDH	C CAGCACCAGCA CACCCCA	

10% FB , 100 / 5% CO₂ / RPMI 1640 , 100 μ / 37 C
 C-BF + LP / C-BF, C-BF
 LP / PB . A 6 -
 C-BF + LP PB () 2 C-BF), 1 μ / LP (LP
 2.12.

2.11.

I B C B , IB , CA (, C).

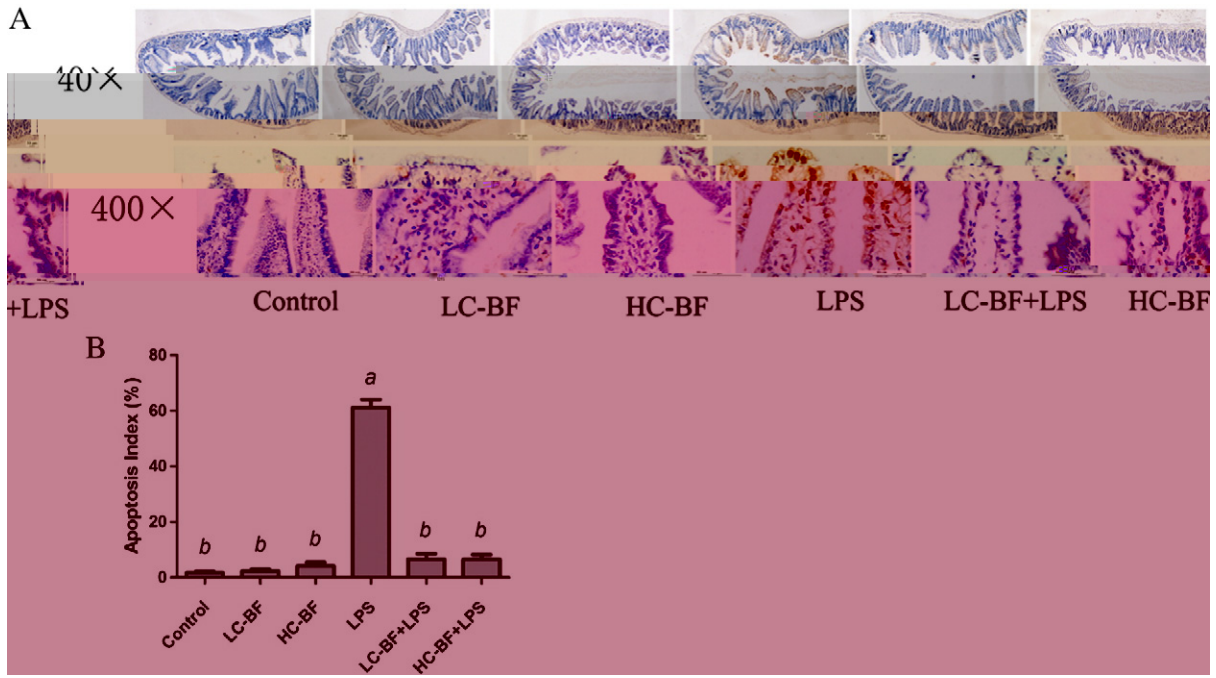
A P 19.0.D -
 D < 0.05. B ANO A



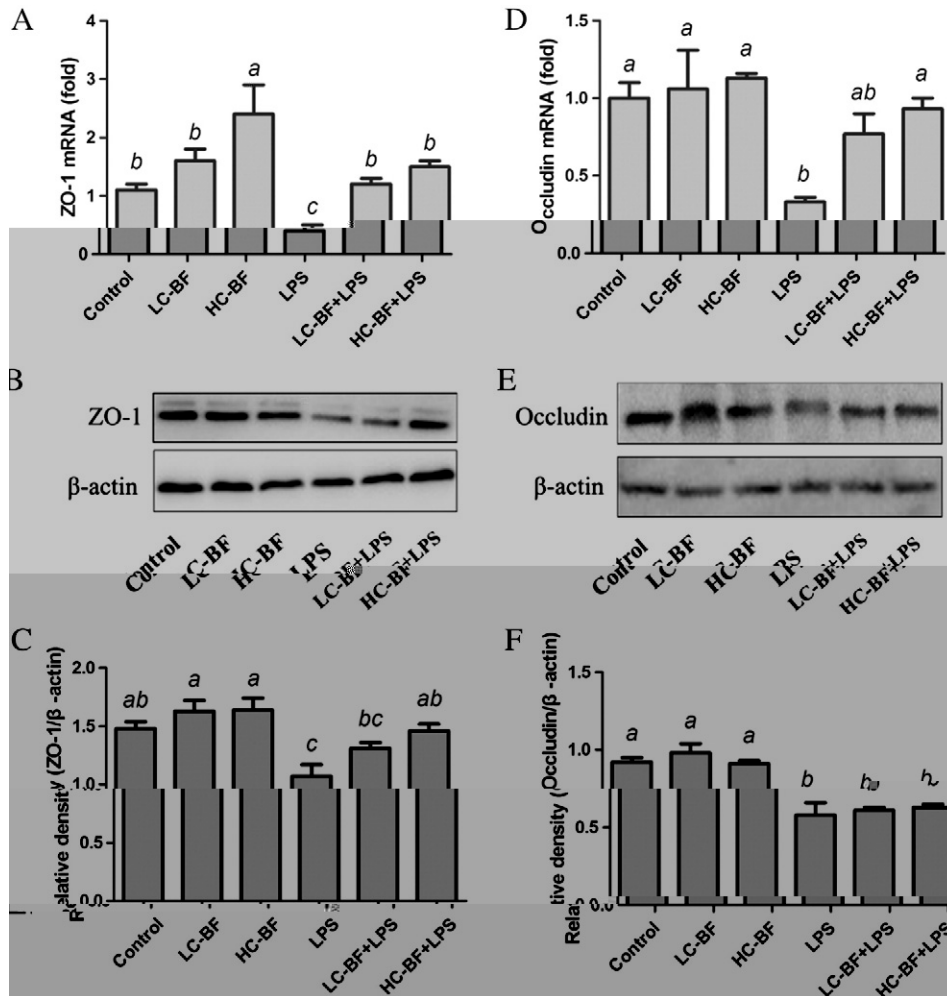
F . 1. E C-BF
 . (B) P

(100). (C) M

(D), (E), (F). (A) I



F .2.E C-BF (A) R NEL (. fi. 40 ,400).(B)A



F .3.E C-BF O-1 (B) (C) (E) (F) (D) R PCR O-1 (A) (D) RNA (B,C) (E,F)

3.

2.21 ± 0.02 μ / , < 0.05; F . 1A). H

2.1. - -

4 / 8 / C-BF fi FD4 -
 , 2.11 ± 0.11 μ / (< 0.05), 2.19 ± 0.05 μ / ,
 . M , C-BF.

fi LP - (2.72 ± 0.06 μ /

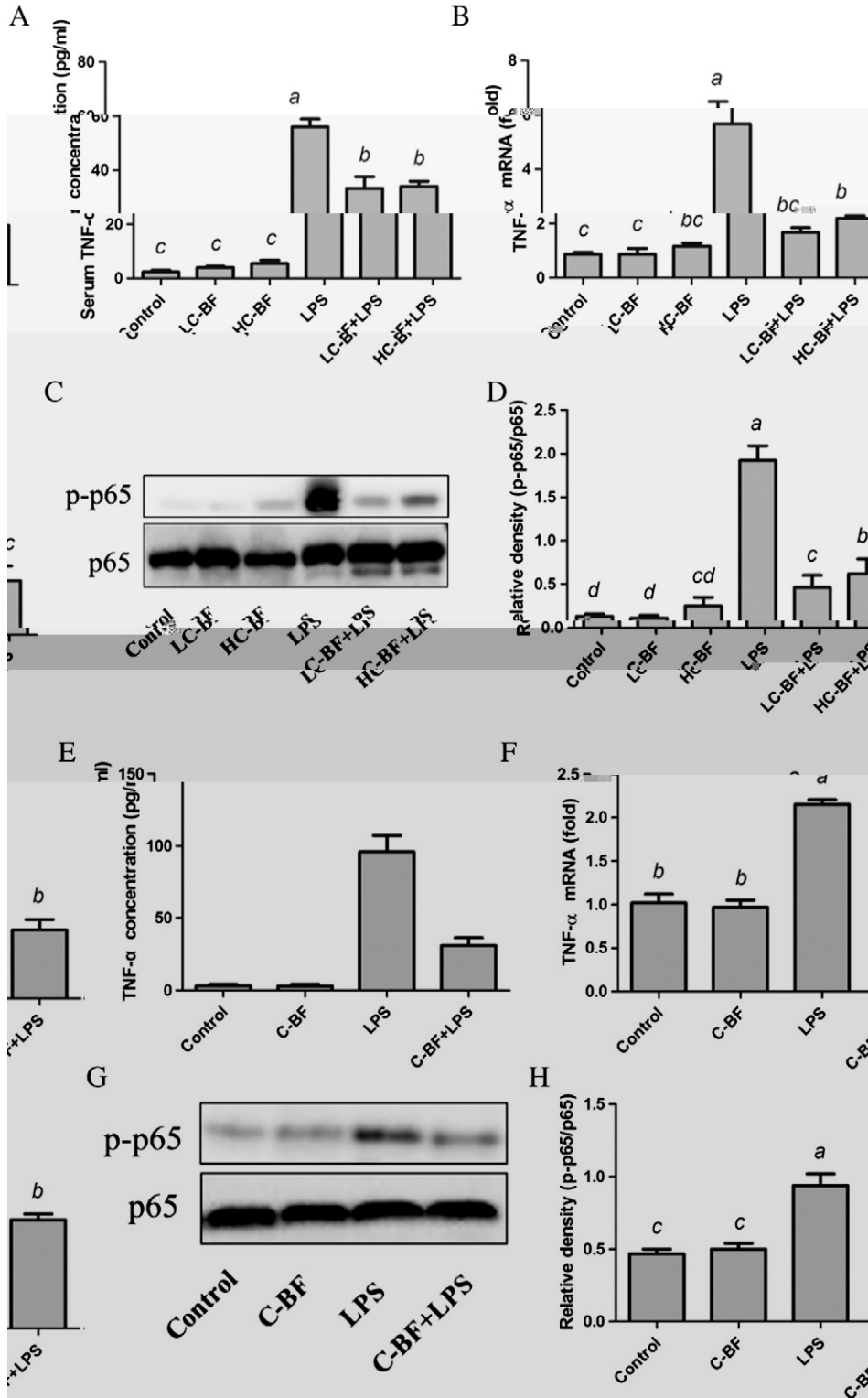


Figure 4. E. C-BF inhibits LPS-induced TNF-α production and NF-κB activation in macrophages. (A) Serum TNF-α concentration. (B) TNF-α mRNA levels. (C) Western blot for p-p65 and p65. (D) Relative density of p-p65/p65. (E) Intracellular TNF-α concentration. (F) TNF-α mRNA levels. (G) Western blot for p-p65 and p65. (H) Relative density of p-p65/p65. Data are expressed as mean ± SEM. Statistical significance is indicated by letters above bars.

H&E (LC-BF HC-BF) (F .1B). I
 LP C-BF LP .P
 C-BF LP .B
 C-BF LP (F .1C).
 LP (299.89 + 3.31 μ
 39% 487.37 + 2.67 μ ; < 0.05; F .1E). A
 (< 0.05), (F .1D), C-BF fi
 LP LC-BF HC-BF LP
 C-BF LP (F .1F). M
 (. . .) .

R NEL LP (F .2A),
 fi (F .2B). P
 LP - 4 / 8 / C-BF
 89.29% 89.40% (P < 0.05
), M LC-BF HC-
 BF (LP)

LP O-1 RNA 64%
 27%, (< 0.05 ;
 F .3A-C). H C-BF
 LP - O-1 RNA (< 0.05).
 C-BF fi C-BF
 RNA O-1 (< 0.05). C-BF
 fi (F .3D-E).

-α -α
 -κ
 LP 23- NF-α
 (56.02 + 2.94 / .243 +
 0.67 / , < 0.05; F .4A). P 4 / 8 /
 C-BF LP NF-α 40.4% 39.3%,
 NF-α C-BF

R PCR LP NF-α
 RNA C-BF fi NF-α RNA
 LC-BF HC-BF .I , NF-α RNA
 LP (F .4B),
 LP 65, fi-
 C-BF (F .4C). Q fi
 LP - 65 14.8

(< 0.05; F .4D), C-BF fi
 LP 65
 -α 2
 RA 264.7 LP
 NF-α C-BF 36-
 fi
 NF-α LP (F .4E). A
 NF-α RNA LP fi 2-
 NF-α RNA (F .4F). LP fi C-BF
 LP 65 .A C-BF
 C-BF
 NF-α RNA NF-α 65
 (F .4G H).

4. D

C-BF
 LP - C-BF fi
 C-BF
 NF-κB NF-α
 J

z A LP B fi
 10, 25
 8.0
 5 LP C-BF
 fi IEC

J, 26. LP IEC IEC
 1.5 10. LP C-BF LP
 NF-α LP IEC 10,
 LP NF-α fi LP
 C-BF fi LP

NF-α, LR4
 IEC 28, LP
 IEC, LR4

A C-BF LP RA 264.7 NF-α 29.
 NF-α LP fi NF-κB fi
 C-BF fi C-BF NF-κB
 NF-α IEC
 J O-1
 LP

31 fi 30, .D O-1
 RNA- C -2
 fi

32 . LP -
 O-1 RNA LP -
 .H , C-BF O-1 -
 LP O-1 -
 RNA .I , C-BF LP IPEC-J2 -
 O-1 LP NF-κB, A NF-κB
 (LP (MLCK) NF-κB
 65 MLCK 33,34 . MLCK- MLC -
 J z J fi -
 C-BF NF-κB J . -
 fi C-BF J -
 I NF-κB C-BF -
 J C-BF -
 NF-κB C-BF -

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 11 1388-99. JR. M -
 A J.P. 2006;169:1901-9. LL-37
 12 D M, MR, H KL H -
 J.L B 2010;87:79-92.
 13 L P, G RL AMP -
 I 2009;30:131-41.
 14 G RL, K KJ, B fi M, K^z CA, M, M z^z L, I fi -
 CRAMP, J B C 1997;272:13088-93.
 15 M N, B KL, B DME, D F fi R, H K, -
 M LR- fi
 16 N MJ, G, LL-37 J I 2006;176:2455-64. LL-37 AR, R, H P, D L A D -
 LL-37 LIP L A 2006;27:
 z P

A
 N F D N C
 (G. N . 31025027) R (CAR -36). M A -

1 A DC, L , L J, C G, C J, P MR, E -
 C C M 2001;29:1303-10.
 2 P, M CM, I C M 2000;28:2573-7.
 3 H H, K BC, M D, M FG, M N, M FA, P -
 2001;15:1-10.
 4 F A, B A, F J, K z A, I 2003;18:479-97.
 J G H
 5 H PA, C PJ, A B, H D, R J C 1994;107:
 3569-77.
 6 AJM, C L, G O, B , C F, E -
 G
 2005;129:907-12.
 7 L QR, Q, C, L , L N, L J, D 2009;218:210-21.
 8 L C, L, L J.P, H, C J, J A C -
 2013;74:203-13.
 9 L HM, HD, C J, H, L D, B 2
 10 JM, D A, P 2011;32:1364-72. CA, AJ, F MR, M JC, B MD, A