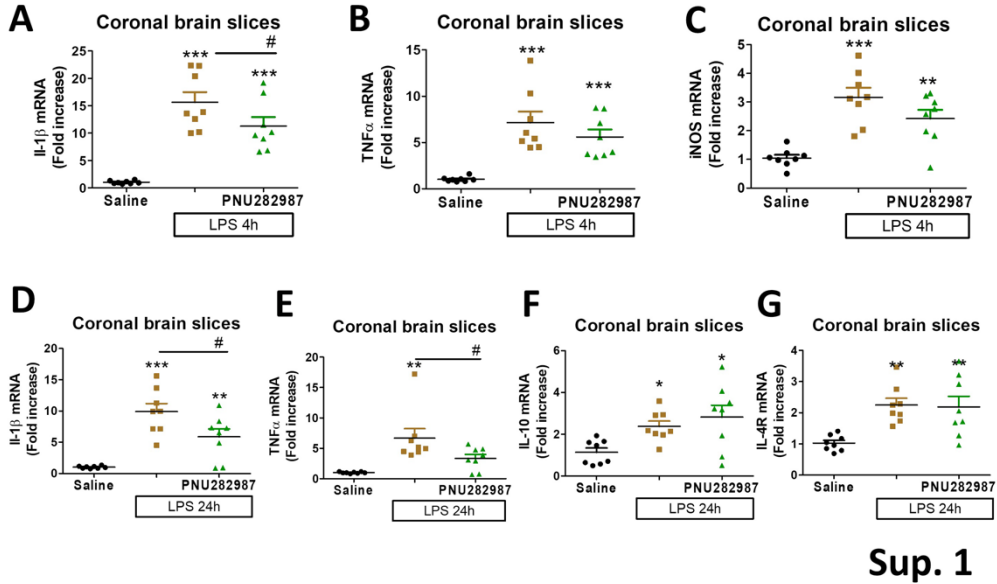
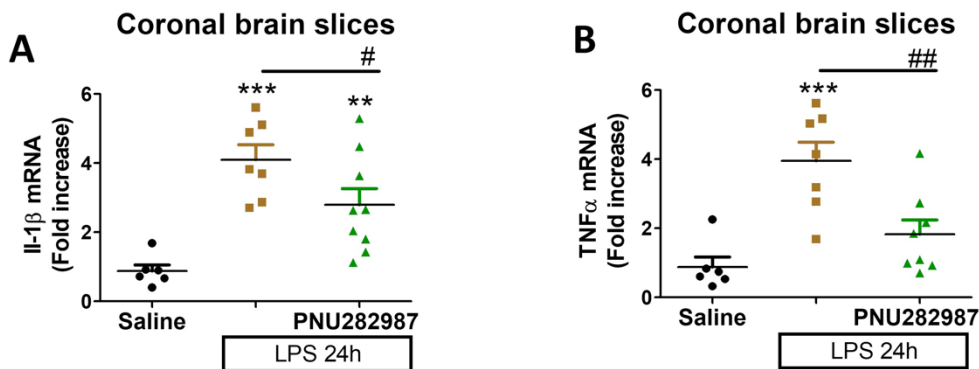


Supplementary Material



Supplementary Figure S1. $\alpha 7$ nAChR activation prevents pro-inflammatory cytokine expression in coronal brain slices. mRNA levels in coronal brain slices of IL-1 β (A), TNF α (B) and iNOS (C) 4 h after injection of LPS \pm PNU282987 and IL-1 β (D), TNF α (E), IL-10 (F), IL-4R (G) 24 h after treatments. Data represent mean \pm S.E.M. of 8 animals/group. Comparisons were made using one-way ANOVA. * P <0.05, ** P <0.01, *** P <0.001 vs saline; # P <0.05 vs LPS.



Supplementary Figure S2. Central $\alpha 7$ nAChR activation 2 h post-LPS prevents pro-inflammatory cytokine expression in coronal brain slices. mRNA levels in coronal brain slices of IL-1 β (A) and TNF α (B) were measured 24 h after injection of LPS. Data represent mean \pm S.E.M. of 6-8 animals/group. Comparisons were made using one-way ANOVA. ** P <0.01, *** P <0.001 vs saline; # P <0.05, ## P <0.01 vs LPS.

Supplementary Table S1. Animal body weight. Tables represent mean body weight of animals in the different protocols (A) co-administration of PNU282987-LPS i.p. (8 animals/group), (B) i.c.v. injection of PNU282987 to adult animals (6-8 animals/group), (C) 2 h post-LPS administration of PNU282987 i.p. (4-6 animals/group), (D) i.c.v. injection of PNU282987 to aged animals (4 animals/group). Data correspond to the mean \pm S.E.M.

A *Animal body weight: i.p. co-administration of LPS and PNU282987*

	T=0 h	T=4 h	T=8 h	T=24 h
Saline	23.7 \pm 0.6	23.7 \pm 0.5	24.1 \pm 0.5	23.2 \pm 0.6
LPS	22.9 \pm 0.6	22.1 \pm 0.6	21.8 \pm 0.6	20.8 \pm 0.6
LPS + PNU	24.4 \pm 0.5	23.7 \pm 0.5	23.7 \pm 0.6	22.9 \pm 0.6

B *Animal body weight: i.c.v. administration of PNU282987 2 h post-LPS (adult animals)*

	T=0 h	T=4 h	T=8 h	T=24 h
Saline	22.7 \pm 0.4	22.9 \pm 0.4	23.7 \pm 0.5	22.4 \pm 0.5
LPS	23.1 \pm 0.4	22.5 \pm 0.4	22.5 \pm 0.3	21.6 \pm 0.2
LPS + PNU	22.9 \pm 0.3	22.5 \pm 0.3	22.6 \pm 0.3	21.7 \pm 0.3

C *Animal body weight: i.p. administration PNU282987 2 h post-LPS*

	T=0 h	T=4 h	T=8 h	T=24 h
Saline	23.6 \pm 0.6	23.8 \pm 0.5	24.1 \pm 0.5	23.3 \pm 0.5
LPS	24.0 \pm 0.5	23.6 \pm 0.6	23.2 \pm 0.6	22.1 \pm 0.6
LPS + PNU	23.2 \pm 0.2	22.8 \pm 0.2	22.6 \pm 0.4	21.6 \pm 0.3

D *Animal body weight: i.c.v. PNU282987 administration 2 h post-LPS (aged animals)*

	T=0 h	T=4 h	T=8 h	T=24 h
Saline	28.9 \pm 1.6	x	x	28.3 \pm 1.6
LPS	28.9 \pm 1.34	x	x	26.7 \pm 0.9
LPS + PNU	29.0 \pm 1.2	x	x	26.4 \pm 1.1