Supplementary Materials

Sphingosine kinases at the intersection of pro-inflammatory LPS and anti-inflammatory endocannabinoid signaling in BV2 mouse microglia cells

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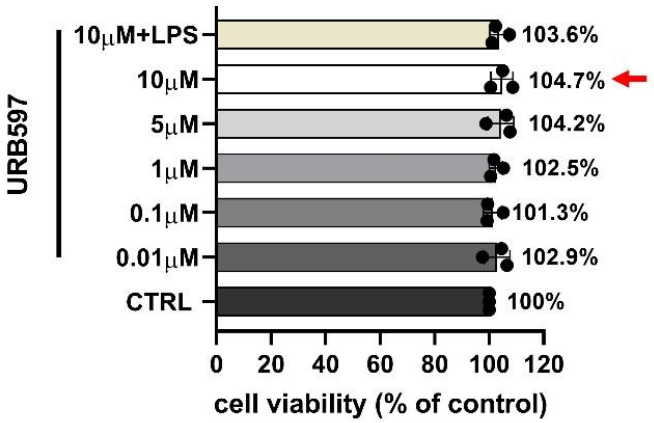

Figure S1. Assessment of **c**ell viability by MTT assay on BV2 cells treated with URB597 at different doses (0.01, 0.1, 1.0, 5.0 and 10μM) and 10 μM URB597 together with 100ng/mL LPS, for 4h. The experimental dose used in the subsequent experiments by a red arrow. Values are expressed as % of control cells and presented as mean SEM of three independent experiment (n = 3).

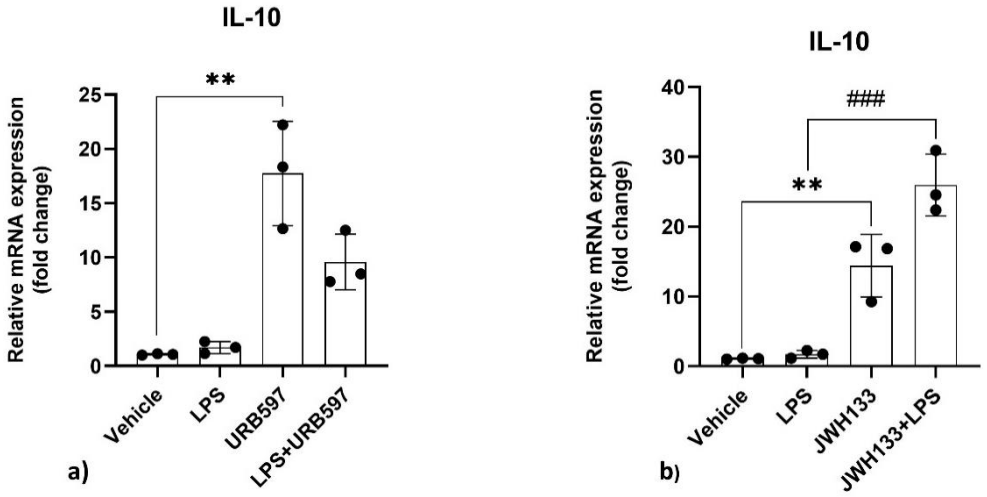

Figure S2. Effect of a) URB597 and b) JWH133, on IL-10 gene expression, in absence and in presence of LPS. BV2 cells were pre-treated with vehicle (CTRL) or 10 μM URB597/1 μM JWH133, for 30 minutes, and then further incubated with vehicle or 100 ng/mL LPS for 4 h. The mRNA level of IL-10 was determined by qRT-PCR and expressed as fold change, using the 2-ΔΔCT method. Data are means±SEM of three independent experiments each in a) and b). Statistical analysis was performed by two-way ANOVA followed by Tukey's multiple comparisons test [**p<0.01 vs. CTRL; ###p<0.001 vs. LPS].

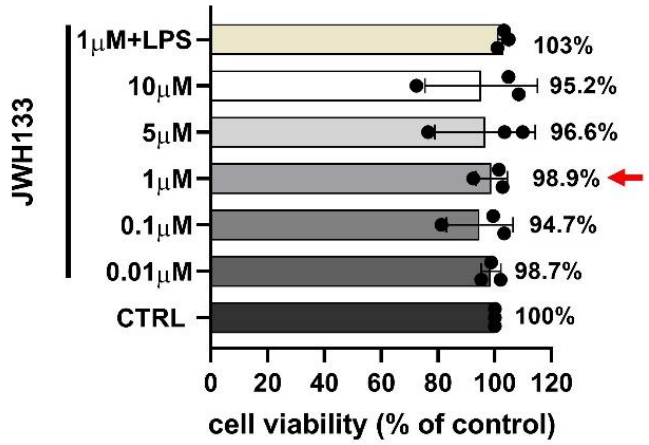

Figure S3. Assessment of **c**ell viability by MTT assay on BV2 cells treated with JWH133 at different doses (0.01, 0.1, 1.0, 5.0 and 10μM) and 1 μM JWH133 together with 100ng/mL LPS, for 4h. The experimental dose used in the subsequent experiments by a red arrow. Values are expressed as % of control cells and presented as mean SEM of three independent experiment (n = 3).