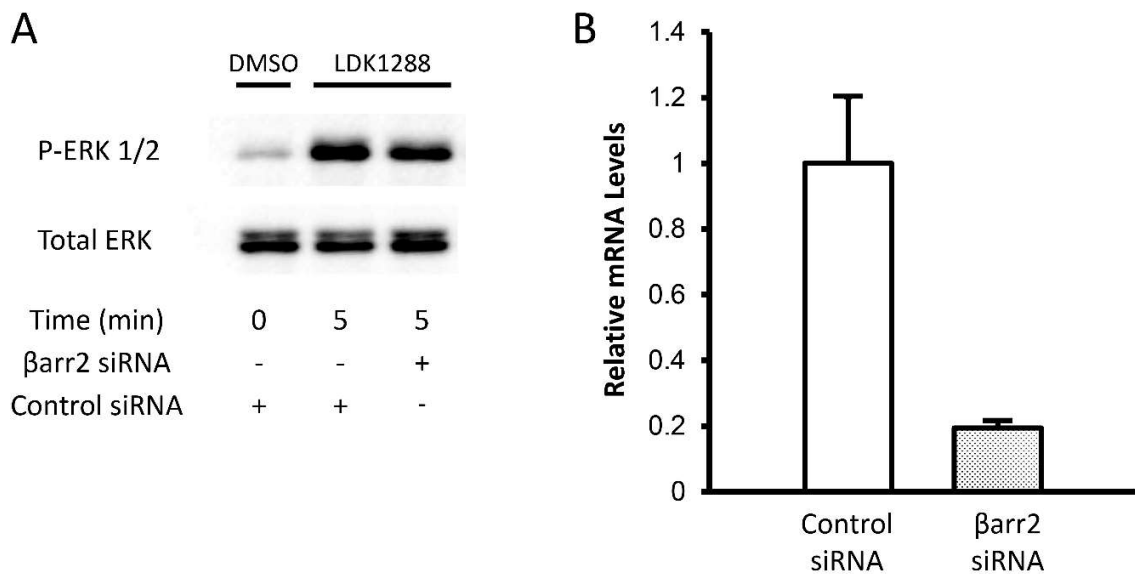


Pyrimidinyl biphenylureas act as allosteric modulators to activate cannabinoid receptor 1 and initiate β -arrestin-dependent responses

Caitlin A. D. Jagla, Caitlin E. Scott, Yaliang Tang, Changjiang Qiao, Gabriel E. Mateo-Semidey, Guillermo A. Yudowski, Dai Lu and Debra A. Kendall

Molecular Pharmacology

Supplemental Figure 1.



Supplemental Figure 1. β -arrestin 2 knockdown.

(A) CB1 expressing HEK293 cells were treated with β -arrestin 2 siRNA or control siRNA, and phosphorylation levels of ERK1/2 were determined after vehicle (DMSO) or LDK1288 treatment for 5 minutes. (B) Knockdown efficiency by β -arrestin 2 siRNA was confirmed by measuring mRNA levels after β -arrestin 2 siRNA or control siRNA treatment. CB1 expressing HEK293 cells were transfected with β -arrestin 2 siRNA and harvested in TRIzol Reagent (Invitrogen), and total RNA extraction was performed following the manufacturer's instruction. Extracted RNA was reverse transcribed by High-Capacity cDNA Reverse Transcription Kit (Applied Biosystems) and quantitative real-time PCR was performed using Applied Biosystems 7500 Fast Real-Time PCR System. Primers used in the reaction are as follows: human GAPDH forward, 5'-AGCCACATCGCTCAGACAC-3', and human GAPDH reverse, 5'-AATGAAGGGGTCATTGATGG-3', human β -arrestin 2 forward, 5'-AGGGTCTTCAAGAAGTCGA-3', and human β -arrestin 2 reverse, 5'-CTCGAGACACCACCAGCTTCACC-3'. mRNA levels were analyzed by $\Delta\Delta$ Ct method and expressed as mean \pm S.E. (n=3). The siRNA to β -arrestin 2 change is given relative to control siRNA set at 1.0.