GW-870086

Cat. No.: HY-103662
CAS No.: 827319-43-7
Molecular Formula: C₃₁H₃₉F₂NO₆
Molecular Weight: 559.64
Target: Glucocorticoid Receptor
Pathway: GPCR/G Protein
Storage: Please store the product under the recommended conditions in the COA.

**BIOLOGICAL ACTIVITY**

**Description**
GW-870086 is a potent anti-inflammatory agent, acting as a glucocorticoid receptor agonist, with a pIC₅₀ of 10.1 in A549 cells expressing NF-κB.

**IC₅₀ & Target**
pIC₅₀: 10.1 (glucocorticoid receptor, A549 NF-κB cells)

**In Vitro**
GW-870086 a glucocorticoid receptor agonist, inhibits NFkB reporter gene with a pIC₅₀ of 10.1, but shows no effect on the MMTV reporter genes in A549 cells, and has little or no activity at the oestrogen receptor, progesterone receptor, progesterone receptor, mineralocorticoid receptor or androgen receptor. GW-870086 (1 pM-1 μM) dose-dependently inhibits the L-6 release induced by TNF-α in A549 epithelial carcinoma cells and by IL-1 in MG63 osteosarcoma cells (pIC₅₀s, 9.6, 10.2).[1] GW-870086 (GW870086X; 10-100 nM) significantly increases fibronectin secretion. However, GW-870086 has no effect on MMP2 secretion, and does not increase cellular myocilin.[2]

**PROTOCOL**

**Cell Assay**[1]
Cells are exposed to DEX, PRED, or GW-870086 at 0, 1, 3, 10, 30, 100 or 300 nM for 5 days. Compounds (GW-870086, etc.) are reconstituted in DMSO as 300-mM stock solutions that are diluted to give final drug concentrations in DMEM. Media (DMEM supplemented with 1% FBS) is changed after 48 hours and equal volumes of media from each group are collected after the final 72 hours of treatment, concentrated (×10), and added to an equal volume of ×2 sample buffer. Cells are then rinsed with PBS and scraped directly into 100-μL ×2 sample buffer/well. All samples are incubated at 100°C for 8 minutes and stored at −20°C until analysis.[1]

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

**REFERENCES**


Caution: Product has not been fully validated for medical applications. For research use only.

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