WAY-204688

Cat. No.: HY-19498
CAS No.: 796854-35-8
Molecular Formula: C₃₄H₃₁F₃N₂O₂
Molecular Weight: 556.62
Target: NF-κB
Pathway: NF-κB
Storage: Powder
-20°C 3 years
4°C 2 years
In solvent
-80°C 6 months
-20°C 1 month

BIOLOGICAL ACTIVITY

Description
WAY-204688 is an estrogen receptor (ER-α) selective, orally active inhibitor of NF-κB transcriptional activity with an IC₅₀ of 122 ± 30 nM for NF-κB-luciferase (NF-κB-luc) in HAECT-1 cells.

IC₅₀ & Target
NF-κB
122 nM (IC₅₀)

In Vitro
The interaction of WAY-204688 with ERα and ERβ is examined in vitro. WAY-204688 displaces [³H]E2 from the ERα ligand binding domain protein (LBD) with IC₅₀=2.43 μM and from the ERβ ligand binding domain protein (LBD) with IC₅₀=1.5 μM[1].

In Vivo
WAY-204688 (5 mg/kg per day, po daily for 5 weeks) is evaluated in vivo for the ability to inhibit four proinflammatory genes (MHC, invariant chain (MHI), VCAM-1, RANTES, and TNF-α). The effect of WAY-204688 on induction of the gene products and on uterine wet weight is compared to that of 17α-ethinyl 17β-estradiol (EE at 10 μg/kg per day) in the same paradigm. Further characterization of WAY-204688 is carried out in several preclinical models of inflammatory disease. In the Lewis rat adjuvant-induced arthritis model (AIA), WAY-204688 is active at a dose of 0.3 mg/kg per day, po[1].

REFERENCES

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