

Product Name : AGN 193109

Synonyms : —

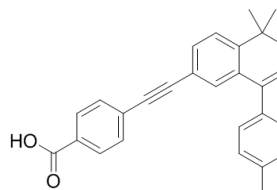
Cat No. : M22422

CAS Number : 171746-21-7

Molecular Formula : C₂₈H₂₄O₂

Formula Weight : 392.49

Chemical Name : —



Description

AGN 193109, a retinoid analog, is a potent and specific antagonist of RARs (K_ds: 2 nM, 2 nM, and 3 nM for RAR α , RAR β , and RAR γ). AGN 193109 is completely RAR specific because it does not bind to or transactivate through any of the RXRs. AGN 193109 (100 nM) inhibits the TTNPB (a retinoic acid receptor agonist)-dependent morphological change in ECE16-1 cells. AGN193109 half-reverses retinoid-dependent growth suppression at 10 nM, and completely shows this effect at 100 nM in ECE16-1 cells. AGN193109 (100 nM) also eliminates TTNPB-induced decrease in levels of K5, K6, K14, K16, and K17 and increases in levels of K7, K8, and K19. AGN 193109 (0.30 or 1.20 μ mol/kg) by topical treatment significantly reduces both weight loss and cutaneous toxicity caused by oral TTNPB cotreatment. AGN 193109 (1.15 μ mol/kg) does not cause overt toxicity and has no effect on spleen weight on the mice, but it suppresses TTNPB-induced increase in spleen weight of the mice. AGN 193109 also significantly reduces the cutaneous toxicity induced by ATRA.

Pathway : Metabolic Enzyme/Protease

Target : Retinoid Receptor

Receptor : RAR α ; RAR β ; RAR γ

Solubility : DMSO:2 mg/mL (5.10 mM; Need warming)

SMILES : Cc1ccc(cc1)C1=CCC(C)(C)c2ccc(cc12)C#Cc1ccc(cc1)C(=O)O

Storage : (-20°C)

Stability : ≥ 2 years

Reference :

1. Johnson AT, et al. Synthesis and characterization of a highly potent and effective antagonist of retinoic acid receptors. J Med Chem. 1995 Nov 24;38(24):4764-7.