For Research Use Only

Ampiroxicam

www.ptgcn.com

Catalog Number: CM03531

产品信息

Catalog Number:
CM03531

CAS号:
99464-64-9

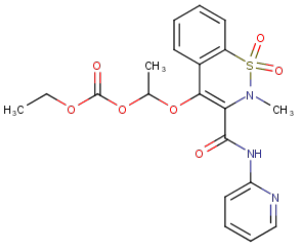
分子式:
$C_{20}H_{21}N_3O_7S$

主要靶点:
COX

主要通路:
神经科学|免疫与炎症

分子量:
447.46

溶解度:
DMSO:83 mg/mL (185.5 mM),Ethanol:<1 mg/mL,H2O:<1 mg/mL



体外活性

Ampiroxicam (<150 μM) dose-dependently decreases the proliferation of Panc-1 cells. [1] Ampiroxicam (50 μM) results in decreased expression of Sp1, Sp3, Sp4, and VEGFR1 proteins in Panc-1 cells and L3.6pl cells as determined by Western blot analysis. Ampiroxicam (50 μM) results in increased phosphorylation of MAPK1/2 in Panc-1 cells and L3.6pl cells. [2]

体内活性

Ampiroxicam inhibits the stretching response in mice induced by phenylbenzoquinone (PBQ) with maximum protective effect (MPE) of 2 mg/kg. Ampiroxicam inhibits swelling in a dose-responsive manner in the rat foot edema (RFE) assay with ED50 of 28 mg/kg at single oral dose and 7.8 mg/kg at 5 daily oral dose. Ampiroxicam blocks primary and secondary lesion development in rat adjuvant arthritis with ED50 of 2.2 mg/kg and 0.5 mg/kg, respectively. Ampiroxicam (3.2 mg/kg) leads to a plasma concentration of 12 μg/mL at a Tmax of 2 hours for piroxicam derived from ampiroxicam in rats. [3] Ultraviolet-A (UVA)-irradiated 1% Ampiroxicam sensitized in guinea pigs shows positive reaction in the patch testing to UVA-irradiated 1% Ampiroxicam and 1% thiosalicylate (TOS). Concentration of Ampiroxicam is easily reduced by the increase in UVA irradiation doses, as compared with that of piroxicam. [4]

细胞实验

Panc-1 cells are plated in DME/F12 medium with 5% fetal bovine serum and treated on the next day with vehicle (0.1% DMSO) or various concentrations of Ampiroxicam. Cells are counted at the indicated times with a Coulter Z1 cell counter. Each experiment is done in triplicate, and results are expressed as means, with error bars representing 95% confidence intervals (CIs).(Only for Reference)

描述

Ampiroxicam is a nonselective cyclooxygenase inhibitor uesd as anti-inflammatory drug.

储存

Powder: -20°C for 3 years | In solvent: -80°C for 1 year