

Mivotilate

Catalog No: tcsc0018393



Available Sizes

Size: 1mg

Size: 5mg

Size: 10mg



Specifications

CAS No:

130112-42-4

Formula:

$C_{12}H_{14}N_2O_3S_3$

Pathway:

Immunology/Inflammation

Target:

Aryl Hydrocarbon Receptor

Purity / Grade:

>98%

Solubility:

10 mM in DMSO

Alternative Names:

YH439

Observed Molecular Weight:

330.45

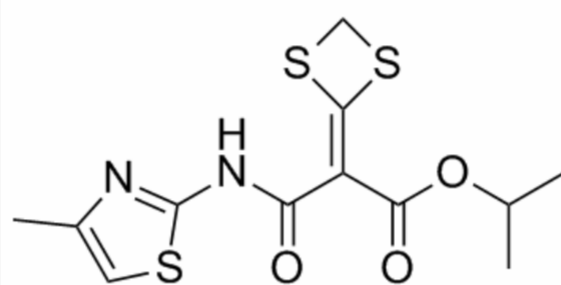
Product Description

Mivotilate is a nontoxic, potent activator of the **aryl hydrocarbon receptor (AhR)**, and acts as a hepatoprotective agent.

IC50 & Target: Aryl hydrocarbon receptor^[1]

In Vitro: Mivotilate is a nontoxic, potent activator of the aryl hydrocarbon receptor. Mivotilate (YH439) has a novel activation mode that tolerates mutation of histidine 285 to tyrosine^[1]. Mivotilate induces cytochromes P4501A1/2 (CYP1A1/2) through the aryl hydrocarbon (Ah) receptor^[3].

In Vivo: Mivotilate (YH439, 150 mg/kg, p.o.) reduces CYP2E1-mediated NDMA demethylase activity in rats, but shows no obvious effect on NADPH-dependent P450 oxidoreductase activity. Mivotilate (75-300 mg/kg) rapidly decreases immunoreactive CYP2E1 protein. Mivotilate (150 mg/kg, p.o.) inhibits the transcription of CYP2E1 in rats^[2].



All products are for RESEARCH USE ONLY. Not for diagnostic & therapeutic purposes!