

Pyributicarb

Catalog No: **tcsc0034633**



Available Sizes

Size: 50mg



Specifications

CAS No:

88678-67-5

Formula:

$C_{18}H_{22}N_2O_2S$

Pathway:

Metabolic Enzyme/Protease

Target:

Cytochrome P450

Purity / Grade:

>98%

Solubility:

H₂O :

Alternative Names:

TSH-888

Observed Molecular Weight:

330.44

Product Description

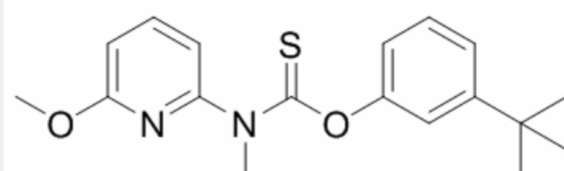
Pyributicarb, a carbamate-type herbicide, is a potent activator of both **CYP3A4** gene and human **pregnane X receptor (hPXR)**.

IC₅₀ & Target: CYP3A4^[1], hPXR^[2]

In Vitro: Pyributicarb, a carbamate-type herbicide, is a potent activator of both CYP3A4 gene and human pregnane X receptor

(hPXR). Pyributicarb is found to increase the *CYP3A4* reporter activity at 0.1 to 1 μM more strongly than typical *CYP3A4* inducer rifampicin. Expression of hPXR-siRNA clearly diminishes the Pyributicarb-stimulated *CYP3A4* reporter activity in 3-1-10 cells and decreases the endogenous *CYP3A4* mRNA levels in HepG2 cells^[1]. Pyributicarb induces luciferase transcription via hPXR at low concentrations in the order of 10 nM. The relative potency of Pyributicarb for hPXR is 8.6-fold that of rifampicin (RIF)^[2].

In Vivo: Pyributicarb causes enhancement of *CYP3A4*-derived reporter activity in mouse livers introduced with hPXR by adenovirus^[1]



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