

# 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:**

H<sub>2</sub>O :

**Alternative Names:**

TSH-888

**Observed Molecular Weight:**

330.44

## Product Description

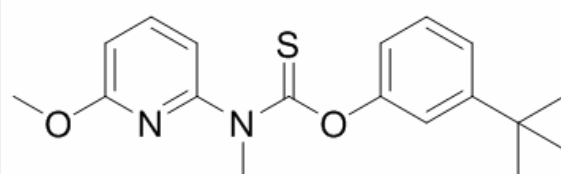
Pyributicarb, a carbamate-type herbicide, is a potent activator of both **CYP3A4** gene and human **pregnane X receptor (hPXR)**.

IC<sub>50</sub> & Target: CYP3A4<sup>[1]</sup>, hPXR<sup>[2]</sup>

**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  $\mu$ M 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<sup>[1]</sup>. 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)<sup>[2]</sup>.

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



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