

# Furafylline

**Catalog No: tcsc0027630**



## Available Sizes

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**Size:** 1mg



## Specifications

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**CAS No:**

80288-49-9

**Formula:**

$C_{12}H_{12}N_4O_3$

**Pathway:**

Metabolic Enzyme/Protease

**Target:**

Cytochrome P450

**Purity / Grade:**

>98%

**Solubility:**

DMSO : 12.5 mg/mL (48.03 mM; Need ultrasonic); H<sub>2</sub>O :

**Observed Molecular Weight:**

260.25

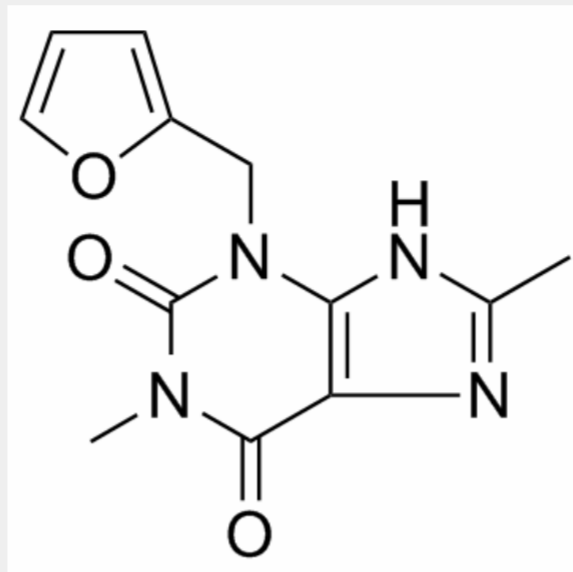
## Product Description

Furafylline is a potent and selective inhibitor of **human cytochrome P450IA2** with an **IC<sub>50</sub>** of 0.07 μM.

IC<sub>50</sub> & Target: IC<sub>50</sub>: 0.07 μM (human cytochrome P450IA2)<sup>[1]</sup>

**In Vivo:** Furafylline is a potent and selective inhibitor of human cytochrome P450IA2 with an IC<sub>50</sub> of 0.07 μM in kinase experiment. Furafylline is a methylxanthine derivative that is introduced as a long-acting replacement for theophylline in the treatment of asthma. Administration of Furafylline is associated with an elevation in plasma levels of caffeine, due to inhibition of caffeine oxidation, a reaction catalysed by one or more hydrocarbon-inducible isoenzymes of P450. Furafylline has either very little or no

effect on human monooxygenase activities catalysed by other isoenzymes of P450, including P4501ID1, P4501IC, P450III A<sup>[1]</sup>.



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