

Furafylline

Catalog No: **tcsc0027630**



Available Sizes

Size: 1mg



Specifications

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); H₂O :

Observed Molecular Weight:

260.25

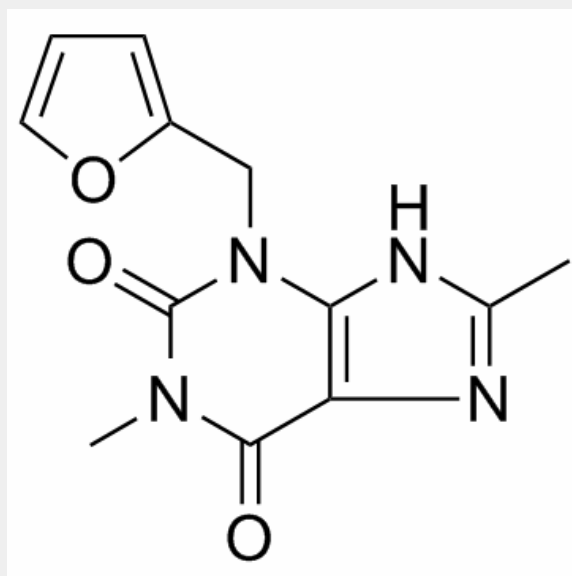
Product Description

Furafylline is a potent and selective inhibitor of **human cytochrome P450IA2** with an **IC₅₀** of 0.07 μM.

IC₅₀ & Target: IC₅₀: 0.07 μM (human cytochrome P450IA2)^[1]

In Vivo: Furafylline is a potent and selective inhibitor of human cytochrome P450IA2 with an IC₅₀ 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, P450IIIA^[1].



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