Data Sheet (Cat.No.T7410)

TargetMol
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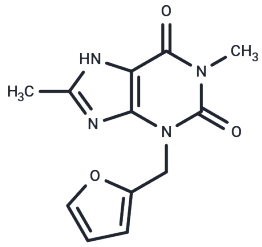
Furafylline

Chemical Properties



CAS No. : 80288-49-9

Formula: C12H12N4O3

Molecular Weight: 260.25

Appearance: no data available

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Biological Description

Description	Furafylline is a selective inhibitor of human cytochrome P450 (CYP)1A2 (IC50 : 0.07 μM),
Targets(IC50)	P450
In vitro	Furafylline was a potent, non-competitive inhibitor of high affinity phenacetin O-deethylase activity of microsomal fractions of human liver, a reaction catalysed by P450IA2, with an IC50 value of 0.07 microM[1].
In vivo	Furafylline was originally introduced as a bronchodilator with extended duration compared to theophylline[1].

Solubility Information

Solubility	DMSO: 12.5 mg/mL (48.03 mM), (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.8425 mL	19.2123 mL	38.4246 mL
5 mM	0.7685 mL	3.8425 mL	7.6849 mL
10 mM	0.3842 mL	1.9212 mL	3.8425 mL
50 mM	0.0768 mL	0.3842 mL	0.7685 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Reference

Sesardic D , Boobis A R , Murray B P , et al. Furafylline is a potent and selective inhibitor of cytochrome P450IA2 in man.[J]. British Journal of Clinical Pharmacology, 1990, 29(6):651-663.

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