CAY 10462 dihydrochloride

Cat. No.: HY-120648A

CAS No.: 502656-68-0

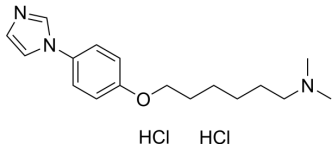
Molecular Formula: $C_{17}H_{27}Cl_2N_3O$

Molecular Weight: 360.32

Target: Cytochrome P450

Pathway: Metabolic Enzyme/Protease

Storage: 4°C, sealed storage, away from moisture
* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 35.71 mg/mL (99.11 mM; ultrasonic and warming and heat to 60°C)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	2.7753 mL	13.8766 mL	27.7531 mL
	5 mM	0.5551 mL	2.7753 mL	5.5506 mL
	10 mM	0.2775 mL	1.3877 mL	2.7753 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

1. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.08 mg/mL (5.77 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.08 mg/mL (5.77 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

CAY 10434 dihydrochloride is a potent CYP4A hydroxylase inhibitor. CAY 10434 dihydrochloride improves contractile response to angiotensin II with the maximal contractile response (E_{max}) 6764 mg[1].

IC_{50} & Target

CYP4A hydroxylase[1]

In Vitro

CAY 10434 dihydrochloride (1 μM; 30 min) combines micoanzol to increase the cumulative angiotensin II in endothelium-intact aortic rings [1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Jerez S, et al. 17-Octadecynoic acid improves contractile response to angiotensin II by releasing vasocontrictor prostaglandins. Prostaglandins Other Lipid Mediat. 2012 Jan;97(1-2):36-42.

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