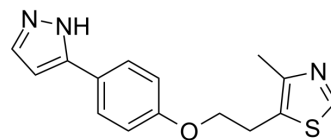


CYP4A11/CYP4F2-IN-1

Cat. No.:	HY-151809
CAS No.:	502654-40-2
Molecular Formula:	C ₁₅ H ₁₅ N ₃ OS
Molecular Weight:	285.36
Target:	Cytochrome P450
Pathway:	Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



SOLVENT & SOLUBILITY

In Vitro

DMSO : 125 mg/mL (438.04 mM; Need ultrasonic)

Concentration	Mass			
	1 mg	5 mg	10 mg	
1 mM	3.5043 mL	17.5217 mL	35.0435 mL	
5 mM	0.7009 mL	3.5043 mL	7.0087 mL	
10 mM	0.3504 mL	1.7522 mL	3.5043 mL	

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

BIOLOGICAL ACTIVITY

Description

CYP4A11/CYP4F2-IN-1 is a potent dual inhibitor of cytochrome P450 (CYP) 4A11 and CYP4F2, with IC₅₀s of 19 nM and 17 nM, respectively. CYP4A11/CYP4F2-IN-1 has potential for the research of renal diseases^[1].

IC₅₀ & Target

CYP4A11 19 nM (IC ₅₀)	CYP4F2 17 nM (IC ₅₀)
--------------------------------------	-------------------------------------

In Vitro

CYP4A11/CYP4F2-IN-1 (compound 2) inhibits 20-Hydroxyeicosatetraenoic acid (20-HETE) production from arachidonic acid in human renal microsomes, with an IC₅₀ of 4.2 nM^[1].

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

REFERENCES

[1]. Kawamura M, et, al. Discovery of Novel Pyrazolopyridine Derivatives for 20-Hydroxyeicosatetraenoic Acid Synthase Inhibitors with Selective CYP4A11/4F2 Inhibition. J Med Chem. 2022 Nov 10;65(21):14599-14613.

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA