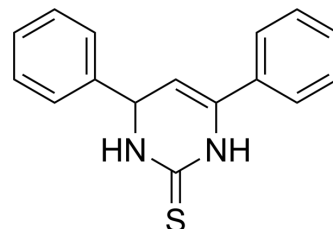


KKII5

Cat. No.:	HY-W488004		
CAS No.:	6381-55-1		
Molecular Formula:	C ₁₆ H ₁₄ N ₂ S		
Molecular Weight:	266.36		
Target:	Lipoxygenase		
Pathway:	Metabolic Enzyme/Protease		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (375.43 mM; Need ultrasonic)

Concentration	Mass		
	1 mg	5 mg	10 mg
1 mM	3.7543 mL	18.7716 mL	37.5432 mL
5 mM	0.7509 mL	3.7543 mL	7.5086 mL
10 mM	0.3754 mL	1.8772 mL	3.7543 mL

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

BIOLOGICAL ACTIVITY

Description

KKII5 is a potent Lipoxygenase (LOX-1) inhibitor with an IC₅₀ of 19 μM. KKII5 inhibits lipid peroxidation^[1].

IC₅₀ & Target

IC₅₀: 19 μM (LOX-1)^[1]

In Vitro

KKII5 interacts with HIS499 of the cavity by forming one π-π stacking interaction between the phenyl ring of the molecule and the imidazole ring of HIS499^[1].

KKII5 (100 μM) strongly inhibits lipid peroxidation with 98% inhibition^[1].

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

REFERENCES

[1]. Georgiou N, et al. Thiocarbohydrazone and Chalcone-Derived 3,4-Dihydropyrimidinethione as Lipid Peroxidation and Soybean Lipoxygenase Inhibitors. ACS Omega. 2023 Mar 21;8(13):11966-11977.

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

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