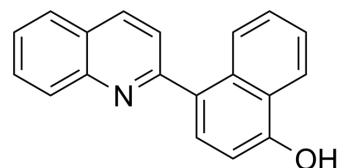


12R-LOX-IN-2

Cat. No.:	HY-155244
CAS No.:	3026677-37-9
Molecular Formula:	C ₁₉ H ₁₃ NO
Molecular Weight:	271.31
Target:	Lipoxygenase; DNA/RNA Synthesis
Pathway:	Metabolic Enzyme/Protease; Cell Cycle/DNA Damage
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 125 mg/mL (460.73 mM; Need ultrasonic)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	3.6858 mL	18.4291 mL	36.8582 mL
	5 mM	0.7372 mL	3.6858 mL	7.3716 mL
	10 mM	0.3686 mL	1.8429 mL	3.6858 mL

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

BIOLOGICAL ACTIVITY

Description

12R-LOX-IN-2 (compound 7b) is an inhibitor of 12R-lipoxygenase (12R-LOX). 12R-LOX-IN-2 inhibits imiquimod (IMQ)-induced hyperproliferation of psoriatic keratinocytes and suppresses colony formation. 12R-LOX-IN-2 also reduced the protein level of Ki67 and the mRNA expression of IL-17A in IMQ-induced cells. 12R-LOX-IN-2 can be used in research into psoriasis and other skin-related inflammatory diseases^[1].

IC₅₀ & Target

12R-lipoxygenase (12R-LOX)^[1]

REFERENCES

[1]. Bhuktar H, et al. Design, synthesis and evaluation of 2-aryl quinoline derivatives against 12R-lipoxygenase (12R-LOX): Discovery of first inhibitor of 12R-LOX. Bioorg Chem. 2023 Sep;138:106606..

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

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