## 15-LOX-1 inhibitor 1

MedChemExpress

Cat. No.:	HY-138989		
CAS No.:	2349374-37	-2	
Molecular Formula:	C <sub>22</sub> H <sub>21</sub> ClN <sub>2</sub> C	4	
Molecular Weight:	412.87		
Target:	Lipoxygena	se	
Pathway:	Metabolic E	nzyme/P	rotease
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month

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### SOLVENT & SOLUBILITY

		Solvent Mass Concentration	1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	2.4221 mL	12.1103 mL	24.2207 mL
		5 mM	0.4844 mL	2.4221 mL	4.8441 mL
	10 mM	0.2422 mL	1.2110 mL	2.4221 mL	
	Please refer to the so	lubility information to select the app	propriate solvent.		
ı Vivo	1. Add each solvent	one by one: 10% DMSO >> 90% cor	n oil		

BIOLOGICAL ACTIV	
Description	15-LOX-1 inhibitor 1 is a potent inhibitor of 15-LOX-1 (15-lipoxygenase-1) with an IC <sub>50</sub> value of 0.19 μM. 15-LOX-1 inhibitor 1 protects macrophages from lipopolysaccharide-induced cytotoxicity. 15-LOX-1 inhibitor 1 inhibits NO formation and lipid peroxidation <sup>[1]</sup> .
IC <sub>50</sub> & Target	15-LOX-1 0.19 μM (IC <sub>50</sub> )
In Vitro	15-LOX-1 inhibitor 1 (Compound 9c) (0-5 μM; 24 hours) protects RAW 264.7 macrophages from LPS-induced cell death and shows stronger, dose-dependent effects with a 20% viability increase at 5 μM <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only. Cell Viability Assay <sup>[1]</sup>

# Product Data Sheet

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Cell Line:	RAW 264.7 macrophages
Concentration:	0, 0.2, 1, 5 $\mu M$ 15-LOX-1 inhibitor 1 and lipopolysaccharides (LPS) (100 $\mu g/mL)$
Incubation Time:	24 hours
Result:	Showed stronger, dose-dependent effects with a 20% viability increase at 5 $\mu$ M

### REFERENCES

[1]. Guo H, et al. Novel 15-Lipoxygenase-1 Inhibitor Protects Macrophages from Lipopolysaccharide-Induced Cytotoxicity. J Med Chem. 2019;62(9):4624-4637.

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

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