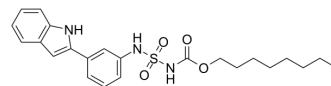


## ALOX15-IN-2

Cat. No.:	HY-143791		
CAS No.:	2764818-23-5		
Molecular Formula:	C <sub>23</sub> H <sub>29</sub> N <sub>3</sub> O <sub>4</sub> S		
Molecular Weight:	443.56		
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 (225.45 mM; Need ultrasonic)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	2.2545 mL	11.2724 mL	22.5449 mL
	5 mM	0.4509 mL	2.2545 mL	4.5090 mL
	10 mM	0.2254 mL	1.1272 mL	2.2545 mL

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

### BIOLOGICAL ACTIVITY

#### Description

ALOX15-IN-2 (compound 8a) is a potent inhibitor of the linoleate oxygenase activity of rabbit and human ALOX15 with IC<sub>50</sub>s of 1.55 and 2.79 μM for ALOX15 orthologs linoleic acid (LA) and arachidonic acid (AA), respectively<sup>[1]</sup>.

### REFERENCES

[1]. Golovanov A, et al. N-Substituted 5-(1H-Indol-2-yl)-2-methoxyanilines Are Allosteric Inhibitors of the Linoleate Oxygenase Activity of Selected Mammalian ALOX15 Orthologs: Mechanism of Action. J Med Chem. 2022;65(3):1979-1995.

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

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