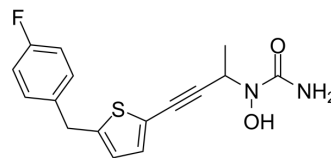


## COX/5-LO-IN-1

<b>Cat. No.:</b>	HY-U00347
<b>CAS No.:</b>	154355-75-6
<b>Molecular Formula:</b>	C <sub>16</sub> H <sub>15</sub> FN <sub>2</sub> O <sub>2</sub> S
<b>Molecular Weight:</b>	318.37
<b>Target:</b>	COX; Lipoxygenase
<b>Pathway:</b>	Immunology/Inflammation; Metabolic Enzyme/Protease
<b>Storage:</b>	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	COX/5-LO-IN-1 (Atreleuton analog) is an inhibitor of cyclooxygenase and 5-lipoxygenase (5-LO), used for the research of inflammatory and allergic disease states.	
<b>IC<sub>50</sub> &amp; Target</b>	5-LO 2 μM (IC <sub>50</sub> )	COX
<b>In Vitro</b>	COX/5-LO-IN-1 reduces the biosynthesis of leukotrienes B <sub>4</sub> , C <sub>4</sub> , D <sub>4</sub> , and E <sub>4</sub> and cyclooxygenase products such as prostaglandins and thromboxane and are useful in the treatment of inflammatory and allergic disease states <sup>[1]</sup> . COX/5-LO-IN-1 shows inhibitory activities against 5-lipoxygenase, with IC <sub>50</sub> of 0.2 μM in human whole blood <sup>[2]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.	

### REFERENCES

[1]. Lipoxygenase and cyclooxygenase inhibiting compounds. US 5516789 A

[2]. Brooks CD, et al. (R)-(+)-N-[3-[5-[(4-fluorophenyl)methyl]-2-thienyl]-1-methyl-2-propynyl]-N-hydroxyurea (ABT-761), a second-generation 5-lipoxygenase inhibitor. J Med Chem. 1995 Nov 24;38(24):4768-75.

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

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