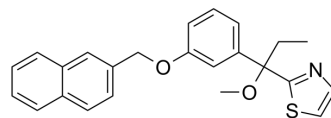


## ICI 211965

Cat. No.:	HY-100148
CAS No.:	129424-08-4
Molecular Formula:	C <sub>24</sub> H <sub>23</sub> NO <sub>2</sub> S
Molecular Weight:	389.51
Target:	Lipoxygenase
Pathway:	Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	ICI 211965 (ZM-211965) is a selective and orally potent 5-Lipoxygenase (5-LPO) inhibitor.
<b>IC<sub>50</sub> &amp; Target</b>	5-LPO
<b>In Vitro</b>	ICI 211965 (ZM-211965) is a selective and orally potent 5-Lipoxygenase (5-LPO) inhibitor. ICI 211965 reduces the leakage of lactate dehydrogenase (LD) and lipid peroxidation at concentrations related to its antioxidative effect and not to its 5-lipoxygenase-inhibiting effect <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

### PROTOCOL

<b>Cell Assay</b>	The myocytes are plated on 35 mm plastic culture dishes at a density of approximately 9×10 <sup>5</sup> cells/mL (1.8×10 <sup>6</sup> cells/dish). The cells are kept in culture for 6 d at 37°C and 5% CO <sub>2</sub> under aerobic conditions in a carbon dioxide incubator. During this period the cells are beating spontaneously at an approximate frequency of 20 to 40 beats/min. Each culture dish contains 0.9±0.2 mg protein. The antioxidant ICI 211965 is added to the culture medium at a final concentration of 0.1% ethanol. Cell damage is determined by leakage of lactate dehydrogenase (LD) to the medium, and is analyzed after 0.5, 1.0, 2.0, 3.0, and 5.0 h <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
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### REFERENCES

[1]. Crawley GC, et al. Methoxytetrahydropyrans. A new series of selective and orally potent 5-lipoxygenase inhibitors. J Med Chem. 1992 Jul 10;35(14):2600-9.

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

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