
Product Data Sheet

Product Name: ICI 211965 (ZM-211965)

Cat. No.: GC31947

Chemical Properties

Cas. No. 129424-08-4

SMILES CCC(C1=NC=CS1)(OC)C2=CC=CC(OCC3=CC=C4C=CC=CC4=C3)=C2Formula C₂₄H₂₃NO₂S M.Wt 389.51

Solubility Soluble in DMSO Storage Store at -20°C

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure **Protocol****Cell experiment:**

The myocytes are plated on 35 mm plastic culture dishes at a density of approximately 9×10⁵ cells/mL (1.8×10⁶ cells/dish). The cells are kept in culture for 6 d at 37°C and 5% CO₂ 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[1].

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

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Address: 10292 Central Ave. #205, Montclair, CA, USA

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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.

Background

ICI 211965 is a selective and orally potent 5-Lipoxygenase (5-LPO) inhibitor.

ICI 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[1].

[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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