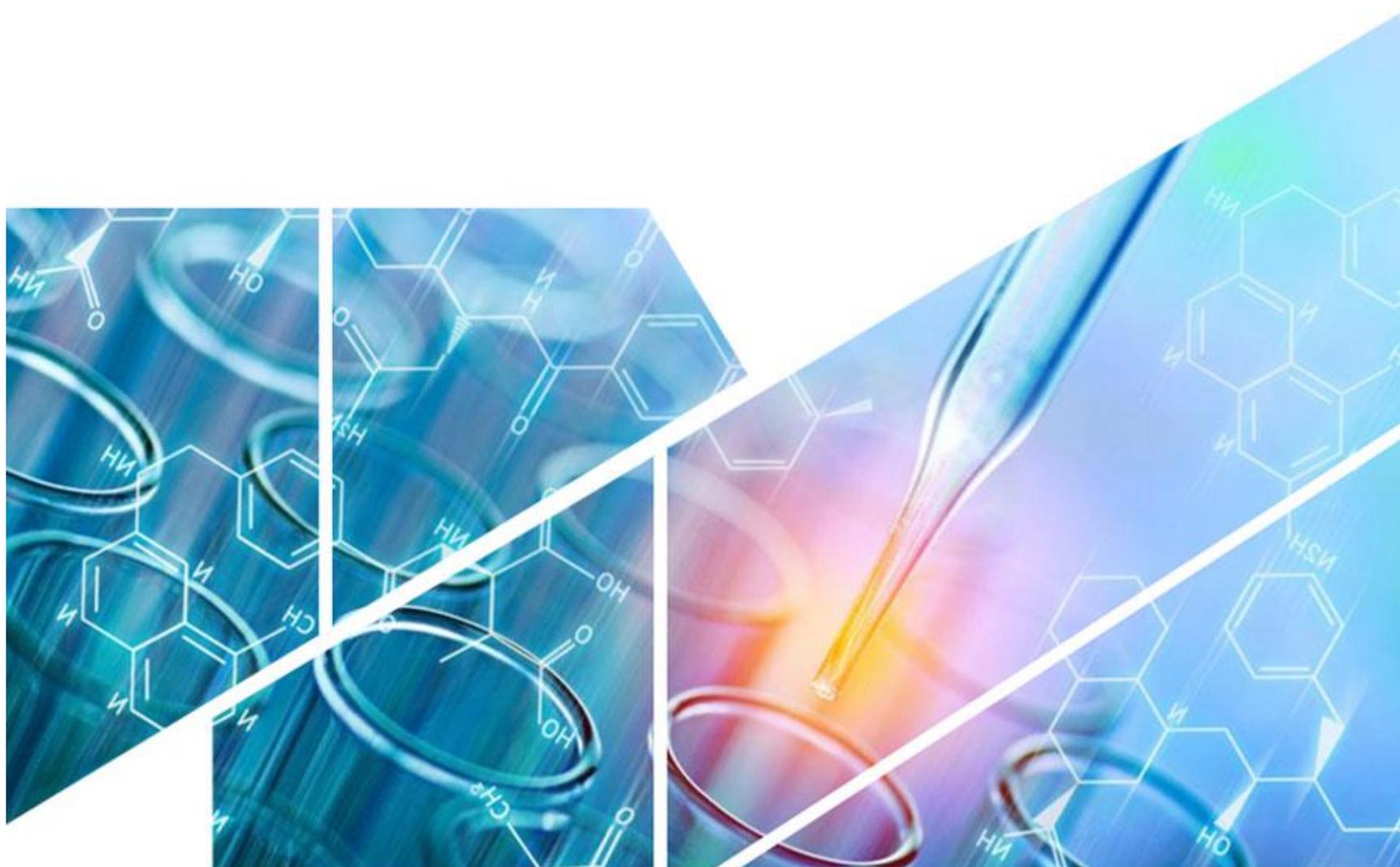


Lipoxygenases (LOXs) Inhibitors (inhibitors, agonists and modulators)



Lipoxygenases are abundant enzymes that have been identified in numerous cells including platelets, leukocytes, and vascular and neural tissue. Because of possessing regiospecificity during interaction, lipoxygenases have been designated as arachidonate 5-, 8-, 12-, 15-lipoxygenase (5-LOX, 8-LOX, 12-LOX, and 15-LOX). Typically, the same HETE isomer can be produced by several distinct lipoxygenase isoforms.



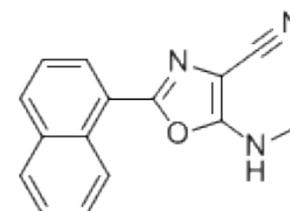
ML 351 - CAS 847163-28-4

Catalog Number:

Molecular Weight: 249.27

Molecular Formula: C₁₅H₁₁N₃O

Description: ML 351 is a potent and selective inhibitor of 12/15-lipoxygenase (IC₅₀ value 200 nM against human 12/15-LOX), which catalyzes the oxidation of polyunsaturated fatty acids to produce unsaturated fatty acid hydroperoxides. Studies indicate that ML351 is protective against oxidative glutamate toxicity in mouse neuronal HT22 cells, and reduces infarct size following permanent focal ischemia in a mouse model of ischemic stroke.



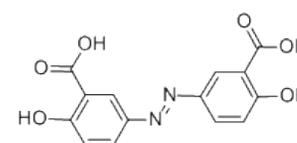
Olsalazine - CAS 15722-48-2

Catalog Number: 15722-48-2

Molecular Weight: 302.24

Molecular Formula: C₁₄H₁₀N₂O₆

Description: Olsalazine, a kind of colchicum alkaloid, has been found to be an anti-inflammatory agent and could be used against inflammatory bowel disease and ulcerative colitis.



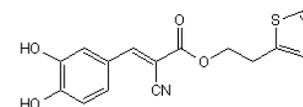
2-TEDC - CAS 132465-10-2

Catalog Number:

Molecular Weight: 315.34

Molecular Formula: C₁₆H₁₃NO₄S

Description: 2-TEDC is a potent inhibitor of 5-, 12-, and 15-lipoxygenase (IC₅₀ = 0.09, 0.013 and 0.5 μM, respectively).



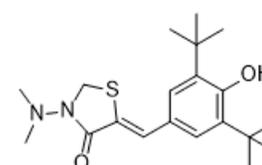
LY 221068 - CAS 132392-39-3

Catalog Number: 132392-39-3

Molecular Weight: 362.54

Molecular Formula: C₂₀H₃₀N₂O₂S

Description: LY 221068 is a Lipoxygenase inhibitor originated by Eli Lilly. It is a potent antioxidant with antiinflammatory properties. But no development was reported for Rheumatic disorders in USA.



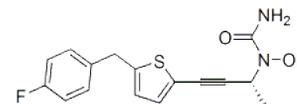
Atreleuton - CAS 154355-76-7

Catalog Number: 154355-76-7

Molecular Weight: 318.37

Molecular Formula: C₁₆H₁₅FN₂O₂S

Description: Atreleuton, a kind of urea compound, has been found to be a 5-lipoxygenase inhibitor as well as Leukotriene B₄ receptor antagonist that could probably be useful in study of sorts of diseases like asthma and acute coronary syndromes. It has already been discontinued by VIA Pharmaceuticals.



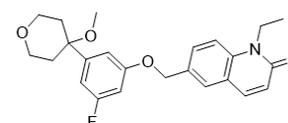
ZM-230487 - CAS 155944-23-3

Catalog Number: 155944-23-3

Molecular Weight: 411.47

Molecular Formula: C₂₄H₂₆FN₂O₄

Description: ZM-230487, a quinolin derivative, has been found to be a 5-lipoxygenase inhibitor as well as Leukotriene D₄ receptor antagonist. It was once studied in anti-inflammatories and osteoporosis therapies.



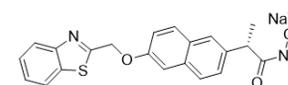
WAY-126299A - CAS 169626-43-1

Catalog Number: 169626-43-1

Molecular Weight: 414.45

Molecular Formula: C₂₂H₁₉N₂NaO₃S

Description: WAY-126299A, a benzothiazoly derivative, has been found to be a 5-lipoxygenase inhibitor as well as Leukotriene D₄ receptor antagonist and was once studied in Asthma.



CMI-977 - CAS 175212-04-1

Catalog Number: 175212-04-1

Molecular Weight: 322.34

Molecular Formula: C₁₆H₁₉FN₂O₄

Description: CMI-977, an oxolan compound, has been found to be a 5-Lipoxygenases inhibitor and was once studied as an antiasthmatic agent.

