Certificate of Analysis

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Product Name: ML 351

CAS Number: 847163-28-4 IUPAC Name: 5-(Methylamino)-2-(1-naphthalenyl)-4-oxazolecarbonitrile

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: Batch Molecular Weight: Physical Appearance: Solubility: Storage: **Batch Molecular Structure:** C₁₅H₁₁N₃O 249.27 Beige solid DMSO to 100 mM Store at -20°C

___NH CN

2. ANALYTICAL DATA

HPLC: ¹H NMR: Mass Spectrum: Microanalysis:

Shows 99.3% purity Consistent with structure Consistent with structure

	Carbon	Hydrogen	Nitrogen
Theoretical	72.28	4.45	16.86
Found	72.57	4.4	16.82

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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Print Date: Jun 26th 2018

Catalog No.: 6448 Batch No.: 1

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Product Information

Print Date: Jun 26th 2018

Batch No.: 1

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Product Name: ML 351

847163-28-4

IUPAC Name: 5-(Methylamino)-2-(1-naphthalenyl)-4-oxazolecarbonitrile

Description:

CAS Number:

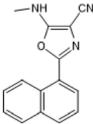
Selective 12/15 LOX inhibitor (IC₅₀ = 200 nM). Exhibits >250-fold selectivity over related isozymes, 5-LOX, platelet 12-LOX, 15-LOX-2, ovine COX-1, and human COX-2. Protects against oxidative glutamate toxicity in mouse neuronal cells (HT-22) and reduces infarct size in a mouse ischemic stroke model.

Physical and Chemical Properties:

Batch Molecular Formula: C15H11N3O Batch Molecular Weight: 249.27 Physical Appearance: Beige solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store at -20°C

Solubility & Usage Info: DMSO to 100 mM

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

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Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References:

Rai et al (2014) Potent and selective inhibitors of human reticulocyte 12/15-lipoxygenase as anti-stroke therapies. J.Med.Chem. 57 4035. PMID: 24684213.

Rai et al (2014) Discovery of ML351, a potent and selective inhibitor of human 15-lipoxygenase-1. Probe Reports from the NIH Molecular Libraries Program. PMID: 24672829.

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