

Certificate of Analysis

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Product Name: NCX 466

Catalog No.: 4537

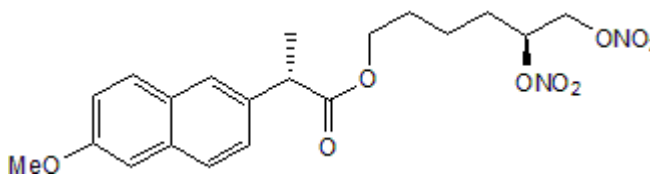
Batch No.: 1

CAS Number: 1262956-64-8

IUPAC Name: (α S)-6-Methoxy- β -methyl-2-naphthaleneacetic acid (5S)-5,6-bis(nitrooxy)hexyl ester

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula:	C ₂₀ H ₂₄ N ₂ O ₉
Batch Molecular Weight:	436.41
Physical Appearance:	Pale yellow oil
Solubility:	DMSO to 100 mM ethanol to 100 mM
Storage:	Store at -20°C
Batch Molecular Structure:	



2. ANALYTICAL DATA

TLC:	R _f = 0.18 (Ethyl acetate:Petroleum ether [2:3])
HPLC:	Shows 99.6% purity
¹H NMR:	Consistent with structure
Mass Spectrum:	Consistent with structure

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

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Description:

Cyclooxygenase (COX)-inhibiting nitric oxide (NO) donor (CINOD). Inhibits COX-1 and COX-2 while releasing NO. Demonstrates higher efficacy than naproxen, its congener drug, in reducing levels of profibrotic cytokine transforming growth factor- β and oxidative stress in a mouse model of bleomycin-induced lung fibrosis. Orally available.

Physical and Chemical Properties:

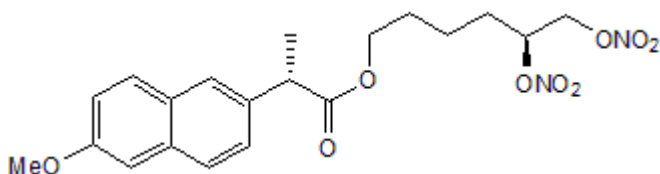
Batch Molecular Formula: C₂₀H₂₄N₂O₉

Batch Molecular Weight: 436.41

Physical Appearance: Pale yellow oil

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store at -20°C

CAUTION - This product is light sensitive and we recommend that the solid material and any solutions obtained are protected from exposure to light.

Solubility & Usage Info:

DMSO to 100 mM

ethanol 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).

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:

Pini *et al* (2012) Prevention of bleomycin-induced lung fibrosis in mice by a novel approach of parallel inhibition of cyclooxygenase and nitric-oxide donation using NCX 466, a prototype cyclooxygenase inhibitor and nitric-oxide donor. *J.Pharmacol.Exp.Ther.* **341** 493. PMID: 22344408.

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