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Certificate of Analysis

Print Date: Jan 15th 2016

Batch No.: 1

www.tocris.com

Catalog No.: 2655

EC Number: 247-486-2

Product Name: Naproxen sodium

CAS Number:26159-34-2IUPAC Name:(2S)-2-(6-Methoxy-2-naphthyl)propanoic acid sodium salt

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: Batch Molecular Weight: Physical Appearance: Solubility: Storage: Batch Molecular Structure:

C14H13NaO3 252.24 White solid water to 100 mM Desiccate at RT

Мe CO₂Na MeO

2. ANALYTICAL DATA

HPLC:	Shows >99.9% purity			
¹ H NMR:	Consistent with structure			
Mass Spectrum:	Consistent with structure			
Optical Rotation:	[α] _D = -16.3 (Concentration = 5, Solvent = 0.1N NaOH)			
Microanalysis:	Carbon Hydrogen Nitrogen			
	Theoretical 66.66 5.19			
	Found 66.32 5.27			

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

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Product Information

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Print Date: Jan 15th 2016

Batch No.: 1

Product Name: Naproxen sodium

CAS Number:26159-34-2IUPAC Name:(2S)-2-(6-Methoxy-2-naphthyl)propanoic acid sodium salt

Description:

Non-selective cyclooxygenase (COX) inhibitor that displays antiinflammatory, antipyretic and analgesic effects. Has a neuroprotective role against colchicine-induced cognitive impairment and oxidative stress.

Physical and Chemical Properties:

Batch Molecular Formula: C14H13NaO3 Batch Molecular Weight: 252.24 Physical Appearance: White solid

Minimum Purity: >99%

Batch Molecular Structure:

Me CO₂Na

Storage: Desiccate at RT

Solubility & Usage Info: water 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:

Sutton (1996) Naproxen sodium. J.Am.Pharm.Assoc. (Wash) NS36 633. PMID: 8952250.

Dhir *et al* (2006) Protective effect of naproxen (non-selective COX-inhibitor) or rofecoxib (selective COX-2 inhibitor) on immobilization stress-induced behavioral and biochemical alterations in mice. Eur.J.Pharmacol. **535** 192. PMID: 16522321.

Kumar et al (2006) Differential effects of cyclooxygenase inhibitors on intracerebroventricular colchicine-induced dysfunction and oxidative stress in rats. Eur.J.Pharmacol. 551 58. PMID: 17027965.

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