1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C14H13NaO3
Batch Molecular Weight: 252.24
Physical Appearance: White solid
Solubility: water to 100 mM
Storage: Desiccate at RT

2. ANALYTICAL DATA

HPLC: Shows >99.9% purity

1H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Optical Rotation: $[\alpha]_D = -16.3$ (Concentration = 5, Solvent = 0.1N NaOH)

Microanalysis: Carbon Hydrogen Nitrogen

Theoretical 66.66 5.19
Found 66.32 5.27
Product Name: Naproxen sodium
CAS Number: 26159-34-2
IUPAC Name: (2S)-2-(6-Methoxy-2-naphthyl)propanoic acid sodium salt

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

Physical and Chemical Properties:
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Batch Molecular Weight: 252.24
Physical Appearance: White solid
Minimum Purity: >99%

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).

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: