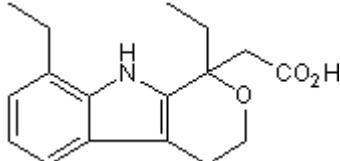


Certificate of Analysiswww.tocris.com**Product Name:** Etodolac**Catalog No.:** 3871**Batch No.:** 1**CAS Number:** 41340-25-4**IUPAC Name:** (RS)-2-(1,8-Diethyl-4,9-dihydro-3H-pyran-3-yl)acetic acid**1. PHYSICAL AND CHEMICAL PROPERTIES****Batch Molecular Formula:** C₁₇H₂₁NO₃**Batch Molecular Weight:** 287.35**Physical Appearance:****Solubility:** DMSO to 100 mM
ethanol to 100 mM**Storage:** Store at +4°C**Batch Molecular Structure:****2. ANALYTICAL DATA****HPLC:** Shows 99.7% purity**¹H NMR:** Consistent with structure**Mass Spectrum:** Consistent with structure**Microanalysis:** Carbon Hydrogen Nitrogen

Theoretical 71.06 7.37 4.87

Found 70.89 7.36 4.93

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SYSTEMS®**

Product Name: Etodolac

Catalog No.: 3871

Batch No.: 1

CAS Number: 41340-25-4

IUPAC Name: (RS)-2-(1,8-Diethyl-4,9-dihydro-3H-pyran-3-yl)acetic acid

Description:

Non-steroidal anti-inflammatory drug (NSAID) that selectively inhibits cyclooxygenase-2 (COX-2) (IC_{50} values are 53 and >100 μ M for COX-2 and COX-1 respectively). Displays anti-inflammatory effects in both adjuvant arthritic and normal rats.

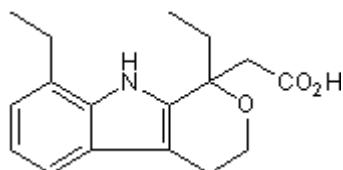
Physical and Chemical Properties:

Batch Molecular Formula: C₁₇H₂₁NO₃

Batch Molecular Weight: 287.35

Physical Appearance:

Batch Molecular Structure:



Storage: Store at +4°C

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:

Kato et al (2001) Cyclooxygenase-1 and cyclooxygenase-2 selectivity of non-steroidal anti-inflammatory drugs: investigation using human peripheral monocytes. *J.Pharm.Pharmacol.* **53** 1679. PMID: 11804398.

Tachibana et al (2003) Anti-inflammatory effect and low ulcerogenic activity of etodolac, a cyclooxygenase-2 selective non-steroidal anti-inflammatory drug, on adjuvant-induced arthritis in rats. *Pharmacology* **68** 96. PMID: 12711837.

Shi et al (2004) Pharmacokinetic difference between S(+)- and R(-)-etodolac in rats. *Acta Pharmacol.Sinica* **25** 996.

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