

Batch No.: 1



Certificate of Analysis

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Product Name: 3-Cyano-7-ethoxycoumarin Catalog No.: 4815

CAS Number: 117620-77-6

IUPAC Name: 7-Ethoxy-2-oxo-2*H*-1-benzopyran-3-carbonitrile

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{12}H_9NO_3$ Batch Molecular Weight:215.2Physical Appearance:Purple solidSolubility:DMSO to 50 mMStorage:Store at +4°C

Batch Molecular Structure:

2. ANALYTICAL DATA

HPLC: Shows 99.2% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure



Product Information

Print Date: Jan 14th 2016 **WWW.tocris.com**

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CAS Number: 117620-77-6

IUPAC Name: 7-Ethoxy-2-oxo-2*H*-1-benzopyran-3-carbonitrile

Description:

Fluorescent P450 substrate (excitation/emission wavelengths = 408/455 nm); metabolized to cyano-hydroxycoumarin.

Physical and Chemical Properties:

Batch Molecular Formula: $C_{12}H_9NO_3$ Batch Molecular Weight: 215.2 Physical Appearance: Purple solid

Minimum Purity: >98%

Batch Molecular Structure:

Storage: Store at +4°C

Solubility & Usage Info:

DMSO to 50 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:

White et al (1988) A continuous fluorometric assay for cytochrome P-450-dependent mixed function oxidases using 3-cyano-7-ethoxycoumarin. Anal.Biochem. 172 304. PMID: 3189781.

Donato et al (2004) Fluorescence-based assays for screening nine cytochrome P450 (P450) activities in intact cells expressing individual human P450 enzymes. Drug Metab.Dispos. 32 699. PMID: 15205384.