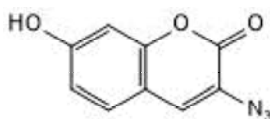


Product Name: 3-Azido-7-hydroxycoumarin
CAS Number: 817638-68-9
IUPAC Name: 3-Azido-7-hydroxy-2H-1-benzopyran-2-one

Catalog No.: 7664 **Batch No.:** 1

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₉H₅N₃O₃
Batch Molecular Weight: 203.15
Physical Appearance: Brown solid
Solubility: DMSO to 100 mM
 DMF to 100 mM
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 97.6% purity at 343 nm
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
UV Spectrum: Consistent with structure
λ_{max}: 345 nm (0.01M PBS pH 7.4)
λ_{ex}: 346 nm (0.01M PBS pH 7.4)
λ_{em}: 477 nm (0.01M PBS pH 7.4)

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

Product Name: 3-Azido-7-hydroxycoumarin

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1

CAS Number: 817638-68-9

IUPAC Name: 3-Azido-7-hydroxy-2H-1-benzopyran-2-one

Description:

3-Azido-7-hydroxycoumarin is a water-soluble fluorogenic fluorescent dye. It emits intense fluorescence only after 'click' reaction when it forms triazoles at the site of alkyne modified biomolecules. Excitation and emission maxima are 404 nm and 477 nm respectively, after click reaction.

Physical and Chemical Properties:

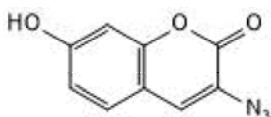
Batch Molecular Formula: C₉H₅N₃O₃

Batch Molecular Weight: 203.15

Physical Appearance: Brown solid

Minimum Purity: ≥95%

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

DMF 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:

Bobrin et al (2021) Water-borne nanocoating for rapid inactivation of SARS-CoV-2 and other viruses. *ACS Nano* **15** 14915. PMID: 34423970.

Silini et al (2021) CM from intact hAM: an easily obtained product with relevant implications for translation in regenerative medicine. *Stem Cell Res. Ther.* **12** 540. PMID: 34641958.

Liu et al (2020) CLICK-17, a DNA enzyme that harnesses ultra-low concentrations of either Cu⁺ or Cu²⁺ to catalyze the azide-alkyne 'click' reaction in water. *Nucleic Acids Res* **48** 7356. PMID: 32520335.

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bio-techne.com

info@bio-techne.com

techsupport@bio-techne.com

North America

Tel: (800) 343 7475

China

info.cn@bio-techne.com

Tel: +86 (21) 52380373

Europe Middle East Africa

Tel: +44 (0)1235 529449

Rest of World

www.tocris.com/distributors

Tel:+1 612 379 2956