

3-Cyano-7-hydroxycoumarin *CAS 19088-73-4*

Catalog number: 40
Unit size: 25 mg

| Component | Storage | Amount |
|--|---|--------|
| 3-Cyano-7-hydroxycoumarin *CAS 19088-73-4* | Freeze (<-15 °C), Minimize light exposure | 25 mg |

OVERVIEW

3-Cyano-7-hydroxycoumarin is used as a calibration standard for 3-cyano-7-hydroxycoumarin-based enzyme substrates. It has pH-dependent fluorescence.

AT A GLANCE

Important

Store at -20 °C, desiccated and protected from light. Expiration date is one year from the date of receipt.

KEY PARAMETERS

| | |
|--------------------|--------------------------------|
| Instrument: | Fluorescence microplate reader |
| Excitation: | 408 nm |
| Emission: | 450 nm |
| Cutoff: | 420 nm |
| Recommended plate: | Solid black |

PREPARATION OF STOCK SOLUTIONS

Unless otherwise noted, all unused stock solutions should be divided into single-use aliquots and stored at -20 °C after preparation. Avoid repeated freeze-thaw cycles.

1. 3-Cyano-7-hydroxycoumarin stock solution (1mM):

Add 5.343 µL DMSO to 1 mg 3-Cyano-7-hydroxycoumarin to make 1 mM stock solution.

Note Add appropriate amount of DMSO to make appropriate concentration of stock solution.

PREPARATION OF WORKING SOLUTION

1. 3-Cyano-7-hydroxycoumarin working solution:

Working solution can be diluted in phosphate or Tris buffer, pH 7.4-7.5.

Note Make appropriate concentration of working solution as per needed.

EXAMPLE DATA ANALYSIS AND FIGURES

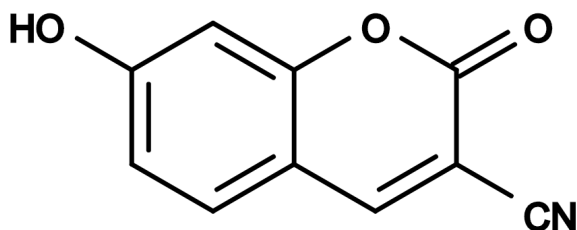


Figure 1. Chemical structure for 3-Cyano-7-hydroxycoumarin *CAS 19088-73-4*

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