

## 4-Methylumbelliferyl-α-L-Idopyranosiduronic Acid 2-sulfate

Cat. No. NATZ-098

Lot. No. (See product label)

## Introduction

 $\textbf{\textit{Description}} \quad \text{4-Methylumbelliferyl-} \alpha - \text{L-iduronide 2-sulfate (4-MU-} \alpha - \text{IdoA 2-sulfate) is a fluorogenic substrate of } \alpha - \text{L-iduronide 2-sulfate (4-MU-} \alpha - \text{IdoA 2-sulfate)} \quad \text{(3.13)} \quad$ 

iduronidase that has been used in an assay to detect Hurler syndrome. It is also used as a substrate for iduronate-2-sulfatase in tests for Hunter disease. For these latter tests, the initial enzymatic product, 4-MU- $\alpha$ -IdoA can be measured by mass spectrometry, or it can be hydrolyzed with  $\alpha$ -L-iduronidase to liberate the fluorophore 4-MU, which has an emission maximum at 445-454 nm. The excitation maximum

for 4-MU is pH-dependent: 330, 370, and 385 nm at pH 4.6, 7.4, and 10.4, respectively.

**Synonyms** 4-Methylumbelliferyl-α-L-Idopyranosiduronic Acid 2-sulfate 4-MU-α-IdoA 2-sulfate

## **Product Information**

**Form** A crystalline solid

Molecular C16H14O12S • 2Na

Formula

Molecular 476.3

Weight

**Purity** 98%

## Storage and Shipping Information

**Storage** -20°C

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