

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

Cat. No. NATZ-098

Lot. No. (See product label)

Introduction

Description

4-Methylumbelliferyl- α -L-iduronide 2-sulfate (4-MU- α -IdoA 2-sulfate) is a fluorogenic substrate of α -L-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- α -IdoA can be measured by mass spectrometry, or it can be hydrolyzed with α -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 Formula	C ₁₆ H ₁₄ O ₁₂ S • 2Na
Molecular Weight	476.3
Purity	98%

Storage and Shipping Information

Storage	-20°C
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