

## 4-MU β-D-galactopyranoside-6-sulfate

Cat. No. NATZ-100

Lot. No. (See product label)

## Introduction

**Description** 4-Methylumbelliferyl β-D-Galactopyranoside-6-sulfate (sodium salt) (4-MU-Gal-6S) is a fluorogenic

substrate used to quantify N-acetylgalactosamine-6-sulphatase (GALNS) activity. 4-MU-Gal-6S is cleaved by GALNS to release the fluorescent moiety 4-MU. 4-MU fluorescence is pH-dependent with excitation maxima of 320 and 360 nm at low (1.97-6.72) and high (7.12-10.3) pH, respectively, and an emission maximum ranging from 445 to 455 nM, increasing as pH decreases. It has been used to detect Morquio disease type A, a lysosomal storage disorder in which GALNS is deficient. 4-MU-Gal-6S can be used to assess GALNS activity in a very small blood volume to determine the extent of deficiency.

**Synonyms** 4-MU β-D-galactopyranoside-6-sulfate 4-Methylumbelliferyl Gal-6S 4-MU-Gal-6S

## **Product Information**

**Form** A crystalline solid

**CAS No.** 206443-06-3

Molecular C16H17O11S • Na

Formula

Molecular 440.4

Weight

**Purity** 98%

## Storage and Shipping Information

**Storage** -20°C

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