Creative Enzymes®

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 Formula	C16H17O11S • Na
Molecular Weight	440.4
Purity	98%

Storage and Shipping Information

Storage	-20°C