

Product Data Sheet

4-MU-α-GlcNS sodium

Cat. No.: HY-D1632 **CAS No.:** 460085-45-4

Molecular Formula: C₁₆H₁₈NNaO₁₀S

Molecular Weight: 439.37

Target: Fluorescent Dye

Pathway: Others

Storage: Please store the product under the recommended conditions in the Certificate of

Analysis.

O ONA OH S=O HO NH

BIOLOGICAL ACTIVITY

Description

4-MU- α -GlcNS sodium is a fluorogenic substrate of heparin sulphamidase, is desulfurized into 4-MU- α -GlcNH₂. 4-MU- α -GlcNH₂ can liberate 4-methylumbelliferone (4-MU, fluorescent product) via α -glucosaminidase catalysis, with the emission wavelength maxima of 445-454 nm. 4-MU- α -GlcNS sodium can be used to heparin sulphamidase deficiencies associated with Mucopolisaccaridosis IIIA and other lysosomal disorders researches [1][2][3].

REFERENCES

[1]. Karpova EA, et al. A fluorimetric enzyme assay for the diagnosis of Sanfilippo disease type A (MPS IIIA). J Inherit Metab Dis. 1996;19(3):278-85.

[2]. Dasgupta F, et al. Synthesis of 7-O-(2-deoxy-2-sulfamido-alpha-D-glucopyranosyl)-4-methylcoumarin sodium salt: a fluorogenic substrate for sulfamidase. Carbohydr Res. 2002 Jun 5:337(11):1055-8.

[3]. G. Civallero, et al. Assay of heparan-N-sulfamidase in dried leukocytes impregnated in filter paper: A new tool for the identification of Mucopolisaccharidosis IIIA and potentially other lysosomal disorders, Molecular Genetics and Metabolism. 2013;108(4): 267-268.

Caution: Product has not been fully validated for medical applications. For research use only.

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Inhibitors