D-N-Acetylgalactosamine-^{13}C

Cat. No.: HY-33212S

CAS No.: 478518-53-5

Molecular Formula: $C_7{}^{13}CH_{15}NO_6$

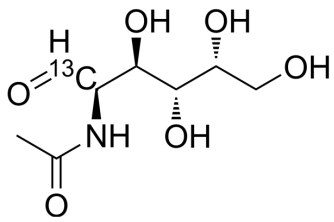
Molecular Weight: 222.2

Target: Endogenous Metabolite; Isotope-Labeled Compounds

Pathway: Metabolic Enzyme/Protease; Others

Storage:

Powder	-20°C	3 years
In solvent	-80°C	6 months
	-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (450.05 mM; Need ultrasonic and warming)

Preparing Stock Solutions	Mass / Solvent / Concentration	1 mg	5 mg	10 mg
	1 mM	4.5005 mL	22.5023 mL	45.0045 mL
	5 mM	0.9001 mL	4.5005 mL	9.0009 mL
	10 mM	0.4500 mL	2.2502 mL	4.5005 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

D-N-Acetylgalactosamine-^{13}C is the ^{13}C labeled D-N-Acetylgalactosamine. D-N-Acetylgalactosamine is an endogenous metabolite[1].

In Vitro

Stable heavy isotopes of hydrogen, carbon, and other elements have been incorporated into drug molecules, largely as tracers for quantitation during the drug development process. Deuteration has gained attention because of its potential to affect the pharmacokinetic and metabolic profiles of drugs[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. Ann Pharmacother. 2019 Feb;53(2):211-216.

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

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