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Produktinformation

- Forschungsprodukte & Biochemikalien
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- Diagnostik & molekulare Diagnostik
- Laborgeräte & Service

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See the following pages for more information!

Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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2-Deoxy-2-sulfoamino-D-glucose sodium

Cat. No.: HY-107785

CAS No.: 38899-05-7

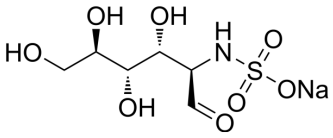
Molecular Formula: $C_6H_{12}NNaO_8S$

Molecular Weight: 281.22

Target: Endogenous Metabolite

Pathway: Metabolic Enzyme/Protease

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



SOLVENT & SOLUBILITY

In Vitro

H_2O : 125 mg/mL (444.49 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	3.5559 mL	17.7797 mL	35.5593 mL
	5 mM	0.7112 mL	3.5559 mL	7.1119 mL
	10 mM	0.3556 mL	1.7780 mL	3.5559 mL

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

BIOLOGICAL ACTIVITY

Description

2-Deoxy-2-sulfoamino-D-glucose sodium (D-Glucosamine-2-N-sulfate sodium) is an endogenous metabolite. The main regulatory mechanism of 2-Deoxy-2-sulfoamino-D-glucose sodium involves the interaction of sulfuric acid groups with biomolecules. Sulfate groups can influence the charge density and configuration of polysaccharides, thereby regulating their ability to bind to proteins such as antithrombin. This combination can enhance the activity of antithrombin, which in turn inhibits key enzymes in the blood clotting process to achieve anti-clotting effects. 2-Deoxy-2-sulfoamino-D-glucose sodium can be used to study the selective removal of n-sulfate groups from Heparin (HY-17567) which has important implications for understanding the biological activity of heparin and developing related drugs[1].

REFERENCES

[1]. Nagasawa K, et al. Solvolytic desulfation of 2-deoxy-2-sulfoamino-D-glucose and D-glucose 6-sulfate[J]. Carbohydrate Research, 1974, 36(2): 265-271.

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

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