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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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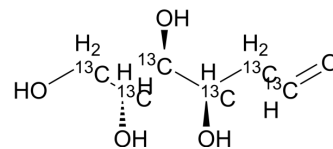
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2-Deoxy-D-glucose-¹³C₆

Cat. No.:	HY-13966S3
CAS No.:	201740-77-4
Molecular Formula:	¹³ C ₆ H ₁₂ O ₅
Molecular Weight:	170.11
Target:	Isotope-Labeled Compounds; Apoptosis; Hexokinase; HSV
Pathway:	Others; Apoptosis; Metabolic Enzyme/Protease; Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description

2-Deoxy-D-glucose-¹³C₆ (2-DG-¹³C₆) is ¹³C labeled 2-Deoxy-D-glucose. 2-Deoxy-D-glucose is a glucose analog that acts as a competitive inhibitor of glucose metabolism, inhibiting glycolysis via its actions on hexokinase^{[1][2]}.

REFERENCES

- [1]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. *Ann Pharmacother*. 2019 Feb;53(2):211-216.
- [2]. Miwa H, et al. Leukemia cells demonstrate a different metabolic perturbation provoked by 2-deoxyglucose. *Oncol Rep*. 2013 May;29(5):2053-7.
- [3]. Zhu Z, et al. 2-Deoxyglucose as an energy restriction mimetic agent: effects on mammary carcinogenesis and on mammary tumor cell growth in vitro. *Cancer Res*. 2005 Aug 1;65(15):7023-30.
- [4]. Ueyama A, et al. Nonradioisotope assay of glucose uptake activity in rat skeletal muscle using enzymatic measurement of 2-deoxyglucose 6-phosphate in vitro and in vivo. *Biol Signals Recept*. 2000 Sep-Oct;9(5):267-74.

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

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