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Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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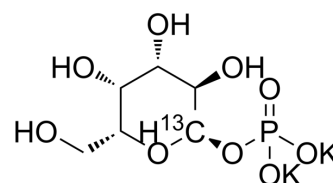
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Galactose 1-phosphate-¹³C potassium

Cat. No.:	HY-113143AS
CAS No.:	478518-78-4
Molecular Formula:	C ₅ ¹³ CH ₁₁ K ₂ O ₉ P
Molecular Weight:	337.31
Target:	Endogenous Metabolite
Pathway:	Metabolic Enzyme/Protease
Storage:	4°C, sealed storage, away from moisture and light * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)



SOLVENT & SOLUBILITY

In Vitro

H₂O : 125 mg/mL (370.58 mM; Need ultrasonic and warming)

	Solvent Concentration	Mass	1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM		2.9646 mL	14.8232 mL	29.6463 mL
	5 mM		0.5929 mL	2.9646 mL	5.9293 mL
	10 mM		0.2965 mL	1.4823 mL	2.9646 mL

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

BIOLOGICAL ACTIVITY

Description

Galactose 1-phosphate-¹³C (potassium) is the ¹³C labeled Galactose 1-phosphate Potassium salt. Galactose 1-phosphate Potassium salt is an intermediate in the galactose metabolism and nucleotide sug[1][2].

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.

[2]. metabolism pathways McCorvie TJ, et al. The structural and molecular biology of type I galactosemia: Enzymology of galactose 1-phosphate uridylyltransferase. IUBMB Life. 2011 Sep;63(9):694-700.

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

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