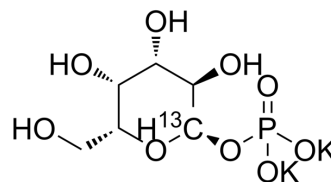


## Galactose 1-phosphate-<sup>13</sup>C potassium

<b>Cat. No.:</b>	HY-113143AS
<b>CAS No.:</b>	478518-78-4
<b>Molecular Formula:</b>	C <sub>5</sub> <sup>13</sup> CH <sub>11</sub> K <sub>2</sub> O <sub>9</sub> P
<b>Molecular Weight:</b>	337.31
<b>Target:</b>	Endogenous Metabolite
<b>Pathway:</b>	Metabolic Enzyme/Protease
<b>Storage:</b>	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	Galactose 1-phosphate- <sup>13</sup> C (potassium) is the <sup>13</sup> C labeled Galactose 1-phosphate Potassium salt. Galactose 1-phosphate Potassium salt is an intermediate in the galactose metabolism and nucleotide sug[1][2].
<b>In Vitro</b>	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 <sup>[1]</sup> . 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 pathwaysMcCorvie 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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