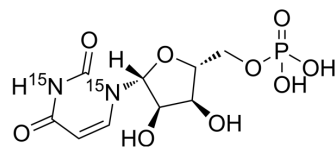


Uridine 5'-monophosphate-¹⁵N₂

Cat. No.:	HY-101981S
Molecular Formula:	C ₉ H ₁₃ ¹⁵ N ₂ O ₉ P
Molecular Weight:	326.17
Target:	Endogenous Metabolite
Pathway:	Metabolic Enzyme/Protease
Storage:	-20°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



BIOLOGICAL ACTIVITY

Description	Uridine 5'-monophosphate-15N2 is the 15N labeled Uridine 5'-monophosphate[1]. Uridine 5'-monophosphate (5'- Uridylic acid), a monophosphate form of UTP, can be acquired either from a de novo pathway or degradation products of nucleotides and nucleic acids in vivo and is a major nucleotide analogue in mammalian milk[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]. Li G, et al. Uridine/UMP metabolism and their function on the gut in segregated early weaned piglets. *Food Funct.* 2019 Jul 17;10(7):4081-4089.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA