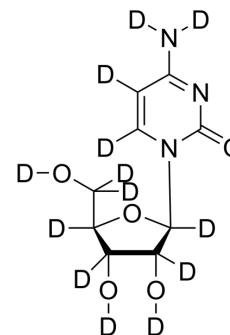


Cytidine-d₁₃

Cat. No.:	HY-B0158S8
Molecular Formula:	C ₉ D ₁₃ N ₃ O ₅
Molecular Weight:	256.3
Target:	Nucleoside Antimetabolite/Analog; Endogenous Metabolite; Isotope-Labeled Compounds
Pathway:	Cell Cycle/DNA Damage; Metabolic Enzyme/Protease; Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description

Cytidine-d₁₃ (Cytosine β-D-ribose-d₁₃; Cytosine-1-β-D-ribofuranoside-d₁₃) is deuterium labeled Cytidine (HY-B0158). Cytidine is a pyrimidine nucleoside and acts as a component of RNA. Cytidine is a precursor of uridine. Cytidine controls neuronal-glial glutamate cycling, affecting cerebral phospholipid metabolism, catecholamine synthesis, and mitochondrial function^{[1][2][3]}.

REFERENCES

- [1]. Jonas DA, et al. Safety considerations of DNA in food. *Ann Nutr Metab.* 2001;45(6):235-54.
- [2]. Wurtman RJ, et al. Effect of oral CDP-choline on plasma choline and uridine levels in humans. *Biochem Pharmacol.* 2000 Oct 1;60(7):989-92.
- [3]. Machado-Vieira R, et al. New therapeutic targets for mood disorders. *ScientificWorldJournal.* 2010 Apr 13;10:713-26.

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

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