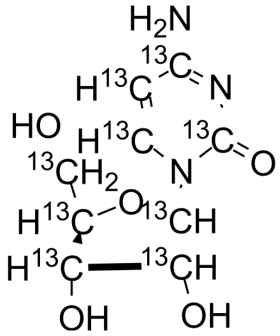
Cytidine-$^{13}C_9$

Cat. No.:	HY-B0158S7
Molecular Formula:	$^{13}C_9H_{13}N_3O_5$
Molecular Weight:	252.15
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-^{13}C9 (Cytosine β-D-riboside-^{13}C9; Cytosine-1-β-D-ribofuranoside-^{13}C9) is ^{13}C 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.

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