Cytidine-¹³C₉,¹⁵N₃

MedChemExpress

| Cat. No.: | HY-B0158S5 | ¹⁵ NH ₂ |
|--------------------|--|---|
| CAS No.: | 202406-79-9 | $^{13}G_{5}$ |
| Molecular Formula: | ¹³ C ₉ H ₁₃ ¹⁵ N ₃ O ₅ | |
| Molecular Weight: | 255.13 | $HO^{13}C$ |
| Target: | Nucleoside Antimetabolite/Analog; Endogenous Metabolite | ¹¹ ³ ÇH ₂ ¹ ⁵ Ņ ⁰ |
| Pathway: | Cell Cycle/DNA Damage; Metabolic Enzyme/Protease | $H^{13}C^{-013}CH$ |
| Storage: | Please store the product under the recommended conditions in the Certificate of | H'°C''°CH |
| | Analysis. | ОН ОН |

Product Data Sheet

| BIOLOGICAL | ΛΟΤΙΛΙΤΛ | |
|-------------|---------------------------|--|
| DIOLOGICAL | ACTIVITY | |
| Description | RNA. Cyt | - ¹³ C ₉ , ¹⁵ N ₃ is the ¹³ C and ¹⁵ N labeled Cytidine[1]. Cytidine is a pyrimidine nucleoside and acts as a component of cidine is a precursor of uridine. Cytidine controls neuronal-glial glutamate cycling, affecting cerebral phospholipid ism, catecholamine synthesis, and mitochondrial function[2][3][4]. |
| In Vitro | tracers for affect the | eavy isotopes of hydrogen, carbon, and other elements have been incorporated into drug molecules, largely as or quantitation during the drug development process. Deuteration has gained attention because of its potential to e pharmacokinetic and metabolic profiles of drugs ^[1] . 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]. Jonas DA, et al. Safety considerations of DNA in food. Ann Nutr Metab. 2001;45(6):235-54.

[3]. Machado-Vieira R, et, al. New therapeutic targets for mood disorders. ScientificWorldJournal. 2010 Apr 1310:713-26.

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