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Zuschläge

- Mindermengenzuschlag
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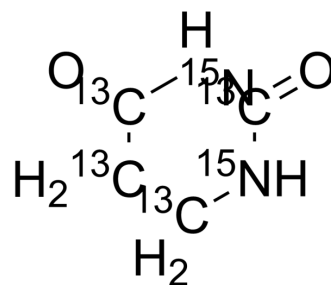
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Dihydrouracil-¹³C₄,¹⁵N₂

Cat. No.:	HY-W012926S
CAS No.:	360769-22-8
Molecular Formula:	¹³ C ₄ H ₆ ¹⁵ N ₂ O ₂
Molecular Weight:	120.06
Target:	Endogenous Metabolite
Pathway:	Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Dihydrouracil- ¹³ C ₄ , ¹⁵ N ₂ is the ¹³ C and ¹⁵ N labeled Dihydrouracil[1]. Dihydrouracil (5,6-Dihydrouracil), a metabolite of Uracil, can be used as a marker for identification of dihydropyrimidine dehydrogenase (DPD)-deficient[2][3].
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]. Henricks LM, et al. Food-effect study on uracil and dihydrouracil plasma levels as marker for dihydropyrimidine dehydrogenase activity in human volunteers. *Br J Clin Pharmacol*. 2018 Dec;84(12):2761-2769.
- [3]. Jacobs BAW, et al. The impact of liver resection on the dihydrouracil:uracil plasma ratio in patients with colorectal liver metastases. *Eur J Clin Pharmacol*. 2018 Jun;74(6):737-744.

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

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