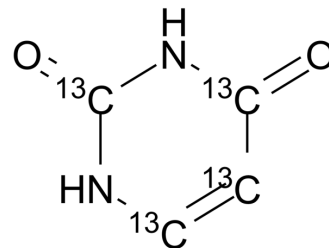


Uracil-¹³C₄

Cat. No.:	HY-I0960S1		
Molecular Formula:	¹³ C ₄ H ₄ N ₂ O ₂		
Molecular Weight:	116.04		
Target:	Endogenous Metabolite		
Pathway:	Metabolic Enzyme/Protease		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 25 mg/mL (215.44 mM; Need ultrasonic and warming)

Concentration	Solvent	1 mg	5 mg	10 mg
	Mass			
Preparing Stock Solutions	1 mM	8.6177 mL	43.0886 mL	86.1772 mL
	5 mM	1.7235 mL	8.6177 mL	17.2354 mL
	10 mM	0.8618 mL	4.3089 mL	8.6177 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

Uracil-¹³C₄ is the ¹³C labeled Uracil[1]. Uracil is a common and naturally occurring pyrimidine derivative and one of the four nucleobases in the nucleic acid of RNA[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]. Palasz A, et al. In search of uracil derivatives as bioactive agents. Uracils and fused uracils: Synthesis, biological activity and applications. *Eur J Med Chem*. 2015 Jun 5;97:582-611.

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