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Produktinformation



Forschungsprodukte & Biochemikalien



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Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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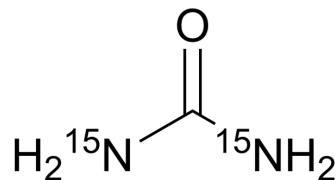
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Urea-¹⁵N₂

Cat. No.:	HY-Y0271S		
CAS No.:	2067-80-3		
Molecular Formula:	CH ₄ ¹⁵ N ₂ O		
Molecular Weight:	62.04		
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 : 100 mg/mL (1611.86 mM; Need ultrasonic)

Concentration	Mass		
	1 mg	5 mg	10 mg
1 mM	16.1186 mL	80.5932 mL	161.1863 mL
5 mM	3.2237 mL	16.1186 mL	32.2373 mL
10 mM	1.6119 mL	8.0593 mL	16.1186 mL

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

BIOLOGICAL ACTIVITY

Description

Urea-¹⁵N₂ is the ¹⁵N-labeled Urea. Urea is a powerful protein denaturant via both direct and indirect mechanisms[1]. A potent emollient and keratolytic agent[2]. Used as a diuretic agent. Blood urea nitrogen (BUN) has been utilized to evaluate renal function[3]. Widely used in fertilizers as a source of nitrogen and is an important raw material for the chemical industry.

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;53(2):211-216.

[2]. Bennion BJ, et al. The molecular basis for the chemical denaturation of proteins by urea. Proc Natl Acad Sci U S A. 2003 Apr 29;100(9):5142-7.

[3]. Pan M, et al. Urea: a comprehensive review of the clinical literature. Dermatol Online J. 2013 Nov 15;19(11):20392.

[4]. Wang H, et al. Urea. Subcell Biochem. 2014;73:7-29.

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

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