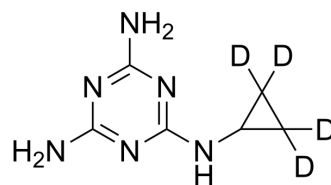


Cyromazine-d₄

Cat. No.:	HY-B1331S		
CAS No.:	1219804-19-9		
Molecular Formula:	C ₆ H ₆ D ₄ N ₆		
Molecular Weight:	170.21		
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 : ≥ 1.8 mg/mL (10.58 mM)
 * "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Solvent	1 mg	5 mg	10 mg
	Concentration			
	1 mM	5.8751 mL	29.3755 mL	58.7510 mL
	5 mM	1.1750 mL	5.8751 mL	11.7502 mL
	10 mM	0.5875 mL	2.9375 mL	5.8751 mL

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

BIOLOGICAL ACTIVITY

Description

Cyromazine-d₄ is the deuterium labeled Cyromazine. Cyromazine is a triazine insect growth regulator used as an insecticide and an acaricide. It is a cyclopropyl derivative of melamine. Cyromazine works by affecting the nervous system of the immature larval stages of certain insects.

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]. Levot GW, et al. Survival advantage of cyromazine-resistant sheep blowfly larvae on dicyclanil- and cyromazine-treated Merinos. Aust Vet J. 2014 Nov;92(11):421-6.

[3]. Levot GW, et al. Survival advantage of cyromazine-resistant sheep blowfly larvae on dicyclanil- and cyromazine-treated Merinos. Aust Vet J. 2014 Nov;92(11):421-6.

[4]. Levot GW, et al. Survival advantage of cyromazine-resistant sheep blowfly larvae on dicyclanil- and cyromazine-treated Merinos. Aust Vet J. 2014 Nov;92(11):421-6.

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