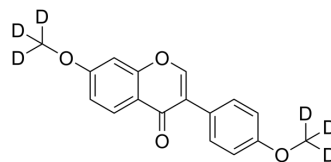


4',7-Dimethoxyisoflavone-d₆

Cat. No.:	HY-N2145S		
Molecular Formula:	C ₁₇ H ₈ D ₆ O ₄		
Molecular Weight:	288.33		
Target:	Isotope-Labeled Compounds		
Pathway:	Others		
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 (346.82 mM; ultrasonic and warming and heat to 160°C)

Concentration	Solvent	Mass	1 mg	5 mg	10 mg
			Concentration	1 mg	5 mg
1 mM			3.4682 mL	17.3412 mL	34.6825 mL
5 mM			0.6936 mL	3.4682 mL	6.9365 mL
10 mM			0.3468 mL	1.7341 mL	3.4682 mL

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

BIOLOGICAL ACTIVITY

Description

4',7-Dimethoxyisoflavone-d₆ (Dimethoxydaidzein-d₆) is the deuterium labeled 4',7-Dimethoxyisoflavone (HY-N2145). 4',7-Dimethoxyisoflavone is isolated from the leaves of Albizzia lebbek, which shows antifungal activity^{[1][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.

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

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