

Product Data Sheet

Coumarin-d₄

Cat. No.: HY-N0709S CAS No.: 185056-83-1 Molecular Formula: $C_9H_2D_4O_2$ Molecular Weight: 150.17

Target: Influenza Virus Pathway: Anti-infection

Storage: Powder -20°C 3 years

2 years

In solvent -80°C 6 months

> -20°C 1 month

SOLVENT & SOLUBILITY

In Vitro

DMSO: 50 mg/mL (332.96 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg	10 mg
	1 mM	6.6591 mL	33.2956 mL	66.5912 mL
	5 mM	1.3318 mL	6.6591 mL	13.3182 mL
	10 mM	0.6659 mL	3.3296 mL	6.6591 mL

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

BIOLOGICAL ACTIVITY

Description Coumarin-d₄ is the deuterium labeled Coumarin. Coumarin is the primary bioactive ingredient in Radix Glehniae, named

Beishashen in China, which possesses many pharmacological activities, including anticancer, anti-inflammation and

antivirus activities.

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.

ive analysis of nine coumarins in r andem mass spectrometry. Biome		nistration of Radix Glehniae extract by high-perf 33-93.	ormance liquid chromatogra
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