



SZABO SCANDIC

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Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!
See the following pages for more information!



Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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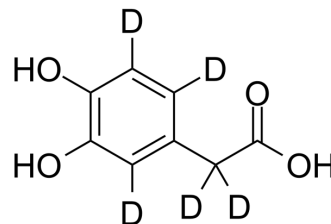
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3,4-Dihydroxybenzeneacetic acid-d₅

Cat. No.:	HY-W001080S		
CAS No.:	60696-39-1		
Molecular Formula:	C ₈ H ₃ D ₅ O ₄		
Molecular Weight:	173.18		
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 (577.43 mM; Need ultrasonic)
 DMSO : 100 mg/mL (577.43 mM; Need ultrasonic)
 H₂O : 50 mg/mL (288.72 mM; Need ultrasonic)
 H₂O : 50 mg/mL (288.72 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent		1 mg	5 mg	10 mg
	Concentration	Mass			
	1 mM		5.7743 mL	28.8717 mL	57.7434 mL
	5 mM		1.1549 mL	5.7743 mL	11.5487 mL
	10 mM		0.5774 mL	2.8872 mL	5.7743 mL

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

BIOLOGICAL ACTIVITY

Description

3,4-Dihydroxybenzeneacetic acid-d₅ is the deuterium labeled 3,4-Dihydroxybenzeneacetic acid. 3,4-Dihydroxybenzeneacetic acid is the main neuronal metabolite of dopamine.

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]. Goldstein DS, et al. Elevated cerebrospinal fluid ratios of cysteinyl-dopamine/3,4-dihydroxyphenylacetic acid in parkinsonian synucleinopathies. *Parkinsonism Relat Disord*. 2016 Oct;31:79-86.

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

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