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Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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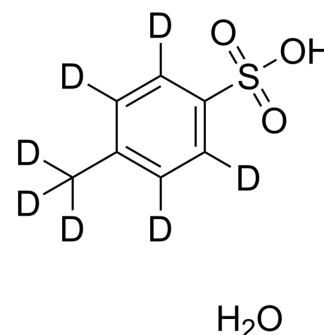
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p-Toluenesulfonic acid-d₇ monohydrate

Cat. No.:	HY-W015175S
CAS No.:	1219795-22-8
Molecular Formula:	C ₇ H ₃ D ₇ O ₄ S
Molecular Weight:	197.26
Target:	Isotope-Labeled Compounds
Pathway:	Others
Storage:	-20°C, protect from light, stored under nitrogen * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light, stored under nitrogen)



SOLVENT & SOLUBILITY

In Vitro

H₂O : 100 mg/mL (506.95 mM; Need ultrasonic and warming)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	5.0695 mL	25.3473 mL	50.6945 mL
	5 mM	1.0139 mL	5.0695 mL	10.1389 mL
	10 mM	0.5069 mL	2.5347 mL	5.0695 mL

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

BIOLOGICAL ACTIVITY

Description

p-Toluenesulfonic acid-d₇ (monohydrate) is the deuterium labeled p-Toluenesulfonic acid monohydrate[1]. p-Toluenesulfonic acid monohydrate, a strong organic acid, acts as organic catalyst used in organic synthesis[2][3].

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.

[2]. Tashiro S, et al. Non-covalent immobilisation of p-toluenesulfonic acid in a porous molecular crystal for size-specific acid-catalysed reactions. *Chem Commun (Camb)*. 2016 Jun 8;52(49):7657-60.

[3]. Quan XJ, et al. p-Toluenesulfonic acid mediated 1,3-dipolar cycloaddition of nitroolefins with NaN₃ for synthesis of 4-aryl-NH-1,2,3-triazoles. Org Lett. 2014 Nov 7;16(21):5728-31.

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

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