2-Iodoacetamide-d₄

MedChemExpress

Cat. No.:	HY-34477S1	L			
CAS No.:	1219802-64-8				
Molecular Formula:	C ₂ D ₄ INO				
Molecular Weight:	188.99				
Target:	DNA Alkylator/Crosslinker				
Pathway:	Cell Cycle/DNA Damage				
Storage:	Powder	-20°C	3 years		
		4°C	2 years		
	In solvent	-80°C	6 months		
		-20°C	1 month		

SOLVENT & SOLUBILITY

		Solvent Mass Concentration	1 mg	5 mg	10 mg
Prepari Stock S	Preparing Stock Solutions	1 mM	5.2913 mL	26.4564 mL	52.9128 mL
	5 mM	1.0583 mL	5.2913 mL	10.5826 mL	
		10 mM	0.5291 mL	2.6456 mL	5.2913 mL

BIOLOGICAL ACTIVITY				
Description	2-Iodoacetamide-d ₄ is the deuterium labeled 2-Iodoacetamide[1]. 2-Iodoacetamide (Iodoacetamide), an alkylating agent, is a commonly used agent for alkylation of cysteine during sample preparation for proteomics[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]. Peter G Hains, et al. The Impact of Commonly Used Alkylating Agents on Artifactual Peptide Modification. J Proteome Resq. 2017 Sep 1;16(9):3443-3447.

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

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