2-lodoacetamide

Cat. No.: CAS No.:	HY-34477 144-48-9	0
Molecular Formula:	C ₂ H ₄ INO	Ŭ
Molecular Weight:	184.96	. II
Target:	DNA Alkylator/Crosslinker	
Pathway:	Cell Cycle/DNA Damage	→ IN
Storage:	4°C, sealed storage, away from moisture and light * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)	

SOLVENT & SOLUBILITY

		Solvent Mass Concentration	1 mg	5 mg	10 mg		
	Preparing Stock Solutions	1 mM	5.4066 mL	27.0329 mL	54.0657 mL		
		5 mM	1.0813 mL	5.4066 mL	10.8131 mL		
		10 mM	0.5407 mL	2.7033 mL	5.4066 mL		
In Vivo	1. Add each solvent	Please refer to the solubility information to select the appropriate solvent. 1. Add each solvent one by one: PBS Solubility: 100 mg/mL (540.66 mM); Clear solution; Need ultrasonic					
		 Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (13.52 mM); Clear solution 					
		3. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (13.52 mM); Clear solution					
	4. Add each solvent	4. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (13.52 mM); Clear solution					

BIOLOGICAL ACTIVITY Description 2-lodoacetamide (lodoacetamide), an alkylating agent, is a commonly used agent for alkylation of cysteine during sample preparation for proteomics^{[1][2]}. In Vivo 2-lodoacetamide (2.0-10 mg; drinking; daily; 20-93 days) feeding always produces chronic deep ulcers in the secretory part of the rat stomach^[2].

 H_2

Inhibitors

Screening Libraries
 Proteins



MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model:	Sprague-Dawley rats ^[2]
Dosage:	2.0-10 mg
Administration:	Drinking water, daily, for periods of 20 to 93 days
Result:	Produced gastritis which was further complicated by chronic ulceration in many of the test rats.

CUSTOMER VALIDATION

• Arab J Chem. 2024 Feb, 17(2), 105550.

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REFERENCES

[1]. 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.

[2]. J J LALICH. Iodoacetamide induced gastric ulcers in rats. Proc Soc Exp Biol Med. 1962 Apr;109:905-8.

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