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Zuschläge

- Mindermengenzuschlag
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SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

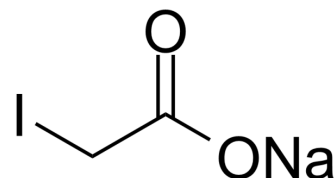
mail@szabo-scandic.com

www.szabo-scandic.com

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 

Sodium iodoacetate

Cat. No.:	HY-D0849
CAS No.:	305-53-3
Molecular Formula:	C ₂ H ₂ INaO ₂
Molecular Weight:	207.93
Target:	Biochemical Assay Reagents
Pathway:	Others
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

In Vitro	DMSO : 100 mg/mL (480.93 mM; Need ultrasonic)				
	H ₂ O : ≥ 100 mg/mL (480.93 mM)				
	* "≥" means soluble, but saturation unknown.				
	Preparing Stock Solutions	Solvent Concentration Mass	1 mg	5 mg	10 mg
		1 mM	4.8093 mL	24.0466 mL	48.0931 mL
		5 mM	0.9619 mL	4.8093 mL	9.6186 mL
10 mM		0.4809 mL	2.4047 mL	4.8093 mL	
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	1. Add each solvent one by one: Saline				
	Solubility: ≥ 100 mg/mL (480.93 mM); Clear solution				

BIOLOGICAL ACTIVITY

Description	Sodium iodoacetate is a specific inhibitor of GAPDH and has glycolysis inhibitory activity. In addition, sodium iodoacetate can induce osteoarthritis and related pain models in experimental animals ^{[1][2][3][4]} .
In Vivo	Sodium iodoacetate (0, 0.3 and 3 mg/joint; injected into the right knee joint space; single dose injection) causes proliferation and moderate fibrosis of synovial cells in Wistar rats, accompanied by mild inflammatory cell infiltration ^[3] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Xu, Y. et al. Glycolysis in Innate Immune Cells Contributes to Autoimmunity. *Frontiers in Immunology*, 13.

[2]. Na, H. et al. Soluble CCR2 gene therapy controls joint inflammation, cartilage damage, and the progression of osteoarthritis by targeting MCP-1 in a monosodium iodoacetate (MIA)-induced OA rat model. *Journal of Translational Medicine*, 20(1)

[3]. Kobayashi K, et al. Sodium iodoacetate-induced experimental osteoarthritis and associated pain model in rats[J]. *Journal of Veterinary Medical Science*, 2003, 65(11): 1195-1199.

[4]. Güler N, et al. Sodium iodoacetate induced osteoarthrosis model in rabbit temporomandibular joint: CT and histological study (part I)[J]. *International journal of oral and maxillofacial surgery*, 2011, 40(11): 1289-1295.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA