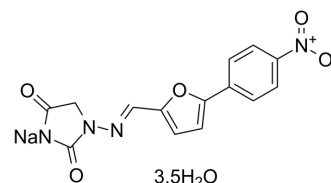


Dantrolene sodium hemiheptahydrate

Cat. No.:	HY-12542A
CAS No.:	24868-20-0
Molecular Formula:	C ₁₄ H ₁₆ N ₄ NaO _{8.5}
Molecular Weight:	399.29
Target:	Calcium Channel; Autophagy
Pathway:	Membrane Transporter/Ion Channel; Neuronal Signaling; Autophagy
Storage:	4°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



SOLVENT & SOLUBILITY

In Vitro

DMSO : ≥ 33 mg/mL (82.65 mM)
 H₂O : < 0.1 mg/mL (ultrasonic;warming;heat to 60°C) (insoluble)
 * "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	2.5044 mL	12.5222 mL	25.0445 mL
	5 mM	0.5009 mL	2.5044 mL	5.0089 mL
	10 mM	0.2504 mL	1.2522 mL	2.5044 mL

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

In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
Solubility: ≥ 0.5 mg/mL (1.25 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: ≥ 0.5 mg/mL (1.25 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Dantrolene sodium hemiheptahydrate is a skeletal muscle relaxant which acts by blocking muscle contraction beyond the neuromuscular junction. Dantrolene sodium hemiheptahydrate is a inhibitor of calcium channel proteins, inhibiting the release of Ca²⁺ from the sarcoplasm.

CUSTOMER VALIDATION

- Cell Res. 2022 Mar;32(3):288-301.

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- Anim Nutr. 28 September 2021.
 - Front Immunol. 2021 Jul 7;12:688674.
 - J Anim Sci Biotechnol. 2022 Feb 11;13(1):9.
 - ACS Omega. 2020 Oct 12;5(41):26551-26561.

See more customer validations on www.MedChemExpress.com

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

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