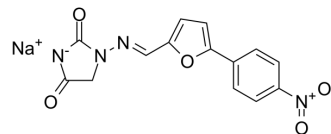


## Dantrolene sodium

|                           |  |
|---------------------------|--|
| <b>Cat. No.:</b>          | HY-14657   |
| <b>CAS No.:</b>           | 14663-23-1   |
| <b>Molecular Formula:</b> | C <sub>14</sub> H <sub>9</sub> N <sub>4</sub> NaO <sub>5</sub>   |
| <b>Molecular Weight:</b>  | 336.23   |
| <b>Target:</b>            | Calcium Channel  |
| <b>Pathway:</b>           | Membrane Transporter/Ion Channel; Neuronal Signaling   |
| <b>Storage:</b>           | 4°C, sealed storage, away from moisture<br>* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture) |



### SOLVENT & SOLUBILITY

#### In Vitro

DMSO : 4.17 mg/mL (12.40 mM); ultrasonic and warming and heat to 60°C

| Concentration | Mass      |            |            |  |
|---------------|-----------|------------|------------|--|
|               | 1 mg      | 5 mg       | 10 mg      |  |
| 1 mM          | 2.9742 mL | 14.8708 mL | 29.7415 mL |  |
| 5 mM          | 0.5948 mL | 2.9742 mL  | 5.9483 mL  |  |
| 10 mM         | 0.2974 mL | 1.4871 mL  | 2.9742 mL  |  |

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

### BIOLOGICAL ACTIVITY

#### Description

Dantrolene sodium is a inhibitor of calcium channel proteins, inhibiting the release of Ca<sup>2+</sup> from the sarcoplasm. Dantrolene sodium is a skeletal muscle relaxant which acts by blocking muscle contraction beyond the neuromuscular junction.

### CUSTOMER VALIDATION

- Cell Res. 2022 Mar;32(3):288-301.
- Front Immunol. 2021 Jul 7;12:688674.
- J Anim Sci Biotechnol. 2022 Feb 11;13(1):9.
- Anim Nutr. 28 September 2021.
- J Cell Commun Signal. 2023 Sep 13.

See more customer validations on [www.MedChemExpress.com](http://www.MedChemExpress.com)

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

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