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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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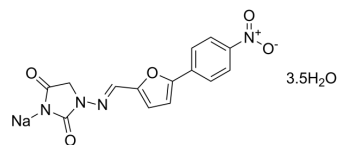
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Dantrolene sodium hemiheptahydrate (Standard)

Cat. No.:	HY-12542AR
CAS No.:	24868-20-0
Molecular Formula:	C ₁₄ H ₁₆ N ₄ NaO _{8.5}
Molecular Weight:	399.31
Target:	Autophagy; Calcium Channel
Pathway:	Autophagy; Membrane Transporter/Ion Channel; Neuronal Signaling
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description

Dantrolene (sodium hemiheptahydrate) (Standard) is the analytical standard of Dantrolene (sodium hemiheptahydrate). This product is intended for research and analytical applications. Dantrolene sodium hemiheptahydrate is an orally active, non-competitive glutathione reductase inhibitor with a K_i of 111.6 μ M and an IC_{50} of 52.3 μ M. Dantrolene sodium hemiheptahydrate is a ryanodine receptor (RyR) antagonist and Ca^{2+} signaling stabilizer. Dantrolene sodium hemiheptahydrate is a direct-acting skeletal muscle relaxant. Dantrolene sodium hemiheptahydrate can be used for the research of muscle spasticity, malignant hyperthermia, Huntington's disease and other neuroleptic malignant syndrome^[1] [2][3].

REFERENCES

- [1]. Murat Sentürk, et al. Dantrolene inhibits human erythrocyte glutathione reductase. *Biol Pharm Bull.* 2008 Nov;31(11):2036-9.
- [2]. Christopher B Sylvester, et al. Dantrolene inhibits lysophosphatidylcholine-induced valve interstitial cell calcific nodule formation via blockade of the ryanodine receptor. *Front Cardiovasc Med.* 2023 Mar 30;10:1112965.
- [3]. Xi Chen, et al. Dantrolene is neuroprotective in Huntington's disease transgenic mouse model. *Mol Neurodegener.* 2011 Nov 25;6:81.
- [4]. Benjamin Liou, et al. Modulating ryanodine receptors with dantrolene attenuates neuronopathic phenotype in Gaucher disease mice. *Hum Mol Genet.* 2016 Dec 1;25(23):5126-5141.

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

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