



LKT Laboratories, Inc.

Dantrolene Sodium Heptahydrate

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Product Information

Product ID D0255

CAS No. 24868-20-0

Chemical Name 1-[[[5-(4-Nitrophenyl)-2-furanyl]methylene]amino]-2,4-imidazolidinedione sodium

Synonym Dantamacrin, Dantrium, F-440, Dantrolene, Sodium Salt Hemiheptahydrate

Formula (C₁₄H₉N₄O₅Na)₂ • 7H₂O

Formula Wt. 399.29

Melting Point 279-280°C

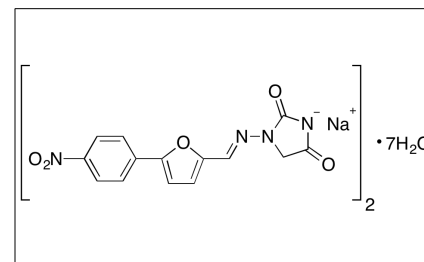
Purity ≥98%

Solubility Slightly soluble in water;
more soluble in alkaline
soln.

Store Temp Ambient

Ship Temp Ambient

Description Dantrolene is a hydantoin derivative that inhibits the ryanodine receptor (RyR), preventing mitochondrial Ca²⁺ uptake. Dantrolene also inhibits L-type Ca(V)1.1 Ca²⁺ channels and is clinically used to treat malignant hyperthermia. Dantrolene also exhibits cardioprotective activity, decreases apoptosis and TNF-α levels and increases IL-10 levels in various animal models of ischemia/reperfusion. TEST!!!!!!



Pricing and Availability

Bulk quantities available upon request

Product ID	Size	List Price
D0255	100 mg	\$81.10
D0255	250 mg	\$150.40
D0255	1 g	\$428.40

References Jakob R, Beutner G, Sharma VK, et al. Molecular and functional identification of a mitochondrial ryanodine receptor in neurons. *Neurosci Lett*. 2014 May 23. [Epub ahead of print]. PMID: 24861510.

Bannister RA. Dantrolene-induced inhibition of skeletal L-type Ca²⁺ current requires RyR1 expression. *Biomed Res Int*. 2013;2013:390493. PMID: 23509717.

Boys JA, Toledo AH, Anaya-Prado R, et al. Effects of dantrolene on ischemia-reperfusion injury in animal models: a review of outcomes in heart, brain, liver, and kidney. *J Investig Med*. 2010 Oct;58(7):875-82. PMID: 20517166.

Caution: This product is intended for laboratory and research use only. It is not for human or drug use.