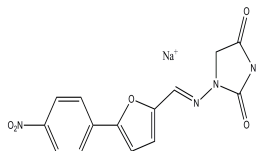


Product: Dantrolene sodium**ALTERNATE NAME:** 1-[[[5-(4-nitrophenyl)-2-furanyl]methylene]amino]-2,4-imidazolidinedione, monosodium salt**CATALOG #:** 2491-100, 500**AMOUNT:** 100 mg, 500 mg**STRUCTURE:****MOLECULAR FORMULA:** C₁₄H₉N₄NaO₅**MOLECULAR WEIGHT:** 336.23**CAS No.** 14663-23-1**APPEARANCE:** Orange solid**SOLUBILITY:** DMSO (~ 2.5 mg/ml) or DMF (~ 12.0 mg/ml)**PURITY:** >98%**STORAGE:** Store at -20°C. Protect from air and moisture**DESCRIPTION:** Dantrolene sodium is an inhibitor of Ca²⁺ release from sarcoplasmic reticulum via inhibition of ryanodine receptor (RYR) channels. Displays selectivity for RYR1 and RYR3 over RYR2. Acts as a skeletal muscle relaxant that depresses excitation-contraction coupling in skeletal muscle by binding to the type 1 ryanodine receptor and decreasing free intracellular calcium concentration.**REFERENCES:** Zhao, F., *et al.* (2001). *J. Biol. Chem.* **276**, 13810-13816.**HANDLING:** Do not take internally. Wear gloves and mask when handling the product! Avoid contact by all modes of exposure.**RELATED PRODUCTS:**Amlodipine besylate (**Cat. No. 2378-50, 250**)2-APB (**Cat. No. 1798-100**)Calcitriol (**Cat. No. 1880-50, 250**)Felodipine (**Cat. No. 2399-10, 50**)Pamidronate disodium (**Cat. No. 1884-50, 250**)Ruthenium Red (**Cat. No. 2490-50, 250**)Ryanodine (**Cat. No. 2489-500, 1000**)Thapsigargin (**Cat. No. 1558-1**)**FOR RESEARCH USE ONLY! Not to be used in humans.**