

Product Name : Dantrolene sodium hemiheptahydrate

Synonyms : Dantrolene sodium hydrate

Cat No. : M13728

CAS Number : 24868-20-0

Molecular Formula : C₁₄H₁₇N₄NaO_{8.5}

Formula Weight : 400.30

Chemical Name : 2,4-Imidazolidinedione, 1-[[[5-(4-nitrophenyl)-2-furanyl]methylene]amino]-, sodium salt, hydrate (2:2:7)

Description : Dantrolene is a postsynaptic muscle relaxant that lessens excitation-contraction coupling in muscle cells, inhibits Ca²⁺ ions release from sarcoplasmic reticulum stores by antagonizing ryanodine receptors.

Pathway : GPCR/G Protein

Target : Calcium Channel

Receptor : Others

Solubility : DMSO: ≥ 33 mg/mL

SMILES : C1C(=NC(=O)N1N=CC2=CC=C(O2)C3=CC=C(C=C3)[N+](=O)[O-])[O-].[Na+].C1C(=NC(=O)N1N=CC2=CC=C(O2)C3=CC=C(C=C3)[N+](=O)[O-])[O-].O.O.O.O.O.O.O.[Na+].[Na+]

Storage : (-20°C)

Stability : ≥ 2 years

Reference :

1. Zucchi R, et al. Pharmacol Rev. 1997 Mar;49(1):1-51.| 2. Barker K, et al. Clin Toxicol (Phila). 2006;44(3):351.| 3. Ellis KO, et al. J Pharm Sci. 1973 Jun;62(6):948-51.

