

## Dantrolene Na, SR calcium release inhibitor

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Catalog	Unit
TBI2208-100MG	100 mg
TBI2208-250MG	250 mg

### Product Details

**Formal Name:** 1-[(5-(p-Nitrophenyl)furfurylidene)amino]hydantoin sodium salt

**Molecular Formula:** C<sub>14</sub>H<sub>9</sub>N<sub>4</sub>O<sub>5</sub> Na

**Formula Weight:** 336.23

**CAS Number:** 14663-23-1

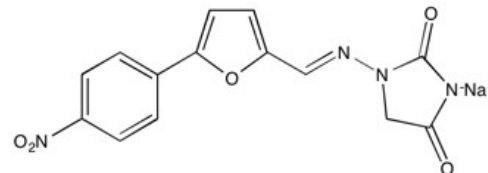
**Purity:** >98%

**Formulation:** powder

**Solubility:** Soluble in DMSO (up to 3 mg/ml) or in a 1:1 mixture of DMF and Ethanol (up to 20 mg/ml)

**Storage:** RT

**Stability:** ≥ 1 year.



### Applications

SR calcium release inhibitor

### Functions

Inhibits release of Ca<sup>2+</sup> from sarcoplasmic reticulum via inhibition of ryanodine receptor channels with selectivity for RYR1 and RYR3 over RYR2. Protects against quisqualate and NMDA-induced cytotoxicity in cultured cerebral cortical neurons. Displays neuroprotective effects. Prevents cell death in neural progenitor cells derived from Wolfram syndrome iPS cells.

### Application Procedures

First dissolved in DMSO (up to 3 mg/ml) or in a 1:1 mixture of DMF and Ethanol (up to 20 mg/ml), then diluted to aqueous buffer. Solutions in DMSO, DMF, or Ethanol may be stored at -20°C for up to 1 month.

**For research use only.**