

**Product Name:** Dynasore

**Catalog No.:** 2897

**Batch No.:** 3

CAS Number: 304448-55-3

IUPAC Name: 3-Hydroxynaphthalene-2-carboxylic acid (3,4-dihydroxybenzylidene)hydrazide

## 1. PHYSICAL AND CHEMICAL PROPERTIES

**Batch Molecular Formula:** C<sub>18</sub>H<sub>14</sub>N<sub>2</sub>O<sub>4</sub>·1½H<sub>2</sub>O

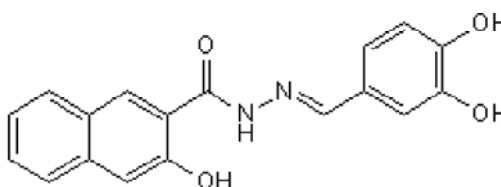
**Batch Molecular Weight:** 349.34

**Physical Appearance:** Yellow solid

**Solubility:** DMSO to 100 mM

**Storage:** Store at -20°C

**Batch Molecular Structure:**



## 2. ANALYTICAL DATA

**HPLC:** Shows 100% purity

**<sup>1</sup>H NMR:** Consistent with structure

**Mass Spectrum:** Consistent with structure

**Microanalysis:**

	Carbon Hydrogen Nitrogen		
Theoretical	61.89	4.9	8.02
Found	62.11	4.75	8.19

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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**Description:**

Dynasore is a non-competitive inhibitor of dynamin 1, dynamin 2 and mitochondrial dynamin (Drp1) GTPase activity. Does not inhibit other small GTPases. Blocks endocytic pathways dependent on dynamin and inhibits cell spreading and migration of BSC1 cells.

**Physical and Chemical Properties:**

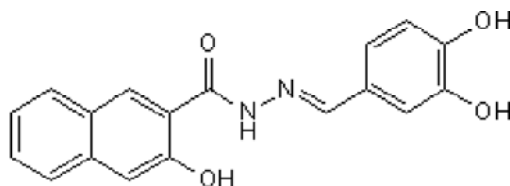
Batch Molecular Formula: C<sub>18</sub>H<sub>14</sub>N<sub>2</sub>O<sub>4</sub>·1½H<sub>2</sub>O

Batch Molecular Weight: 349.34

Physical Appearance: Yellow solid

**Minimum Purity:** ≥99%

**Batch Molecular Structure:**



**Storage:** Store at -20°C

**CAUTION** - This product is light sensitive and we recommend that the solid material and any solutions obtained are protected from exposure to light.

**Solubility & Usage Info:**

DMSO to 100 mM

**Stability and Solubility Advice:**

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

**SOLIDS:** Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

**SOLUTIONS:** We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

**References:**

**Macia et al** (2006) Dynasore, a cell-permeable inhibitor of Dynamin. *Develop.Cell* **10** 839.

**Newton et al** (2006) Inhibition of dynamin completely blocks compensatory synaptic vesicle endocytosis. *Proc.Natl.Acad.Sci.USA* **103** 17955.

**Thompson and McNiven** (2006) Discovery of a new 'dynasore'. *Nat.Chem.Biol.* **2** 355. PMID: 16783339.

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