

Certificate of Analysis

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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: $C_{18}H_{14}N_2O_4 \cdot 1\frac{1}{2}H_2O$

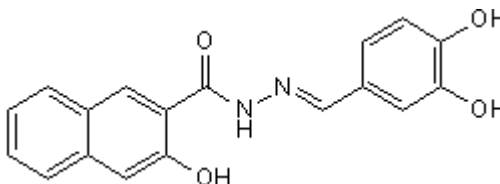
Batch Molecular Weight: 349.34

Physical Appearance: Yellow solid

Solubility: DMSO to 100 mM
ethanol to 5 mM

Storage: Store at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 100% purity

¹H 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:

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:

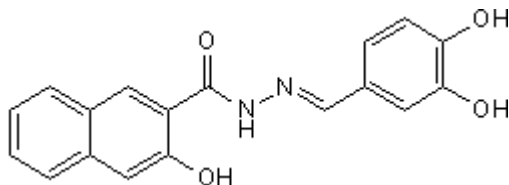
Batch Molecular Formula: C₁₈H₁₄N₂O₄·1 ½H₂O

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

ethanol to 5 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:

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

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.

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