

Product Name: Dynasore

Catalog No.: 2897

Batch No.: 4

CAS Number: 304448-55-3

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

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₈H₁₄N₂O₄.H₂O

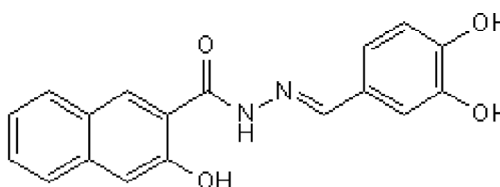
Batch Molecular Weight: 340.34

Physical Appearance: Off White solid

Solubility: DMSO to 100 mM

Storage: Store at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.8% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	63.53	4.74	8.23
Found	63.51	4.77	8.33

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

bio-techne.com

info@bio-techne.com

techsupport@bio-techne.com

North America

Tel: (800) 343 7475

China

info.cn@bio-techne.com

Tel: +86 (21) 52380373

Europe Middle East Africa

Tel: +44 (0)1235 529449

Rest of World

www.tocris.com/distributors

Tel:+1 612 379 2956

Product Name: Dynasore

Catalog No.: 2897

Batch No.: 4

CAS Number: 304448-55-3

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

Description:

Dynasore is a non-competitive reversible inhibitor of dynamin 1, dynamin 2 and mitochondrial dynamin (Drp1) GTPase activity. Dynasore blocks endocytic pathways dependent on dynamin and inhibits cell spreading and migration of BSC1 cells. Dynasore attenuates motor symptoms in an animal model of Parkinson's disease and in a cellular model of Alzheimer's disease it reduces tau protein aggregation and internalization.

Physical and Chemical Properties:

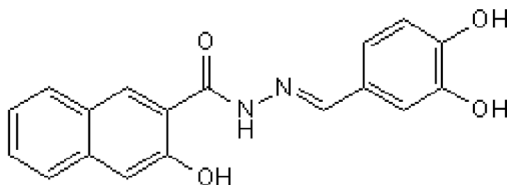
Batch Molecular Formula: C₁₈H₁₄N₂O₄.H₂O

Batch Molecular Weight: 340.34

Physical Appearance: Off White 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. *Unless contradicted by product-specific protocols or instructions, our standard recommendations apply:

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:

Feng et al (2021) Inhibition of dynamin-related protein 1 ameliorates the mitochondrial ultrastructure via PINK1 and Parkin in the mice model of Parkinson's disease. *Eur.J.Pharmacol.* **907** 174262. PMID: 34146589.

Soares et al (2021) PIKfyve activity is required for lysosomal trafficking of tau aggregates and tau seeding. *J.Biol.Chem.* **296**. PMID: 33831417.

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

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

bio-techne.com

info@bio-techne.com

techsupport@bio-techne.com

North America

Tel: (800) 343 7475

China

info.cn@bio-techne.com

Tel: +86 (21) 52380373

Europe Middle East Africa

Tel: +44 (0)1235 529449

Rest of World

www.tocris.com/distributors

Tel:+1 612 379 2956