

Product Name: Hydroxy Dynasore

Catalog No.: 5364

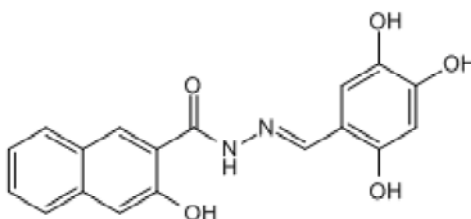
Batch No.: 1

CAS Number: 1256493-34-1

IUPAC Name: 3-Hydroxynaphthalene-2-carboxylic acid 2-[(2,4,5)-trihydroxyphenyl)methylene]hydrazide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₈H₁₄N₂O₅
Batch Molecular Weight: 338.31
Physical Appearance: Yellow solid
Solubility: DMSO to 100 mM
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 98.8% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	63.9	4.17	8.28
Found	63.83	4.13	8.23

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

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Description:

Dynamin inhibitor (IC₅₀ values are 0.38 and 2.6 μM for dynamin 1 and 2 respectively). Inhibits dynamin-mediated endocytosis in multiple cell types and reduces synaptic vesicle endocytosis in vitro. Prevents botulinum A internalization in hippocampal neurons. Also protects against botulinum A-induced muscle paralysis in rats. Analog of Dynasore (Cat. No. 2897).

Physical and Chemical Properties:

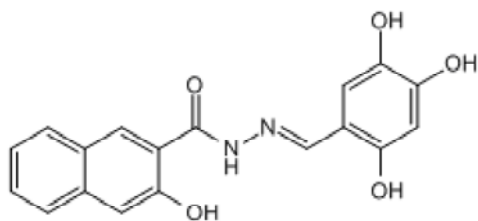
Batch Molecular Formula: C₁₈H₁₄N₂O₅

Batch Molecular Weight: 338.31

Physical Appearance: Yellow solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store at -20°C. This product is packaged under an inert atmosphere.

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:

McCluskey et al (2013) Building a better dynasore: the dyngo compounds potently inhibit dynamin and endocytosis. *Traffic* **14** 1272. PMID: 24025110.

Harper et al (2011) Dynamin inhibition blocks botulinum neurotoxin type A endocytosis in neurons and delays botulism. *J.Biol.Chem.* **286** 35966. PMID: 21832053.

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