

Product Name: FIN 56

Catalog No.: 6280

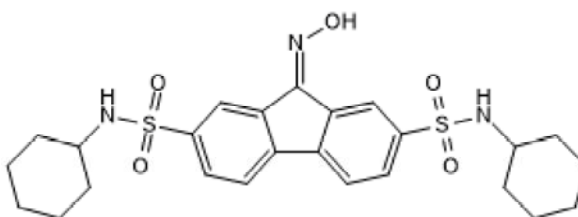
Batch No.: 1

CAS Number: 1083162-61-1

IUPAC Name: *N*²,*N*⁷-Dicyclohexyl-9-(hydroxyimino)-9*H*-fluorene-2,7-disulfonamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₅H₃₁N₃O₅S₂
Batch Molecular Weight: 517.66
Physical Appearance: White solid
Solubility: DMSO to 100 mM
Storage: Store at +4°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 98.4% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	58	6.04	8.12
Found	58.25	6.06	7.91

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

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Description:

Bifunctional inducer of ferroptosis in vitro. Activates squalene synthase (SQS) leading to coenzyme Q₁₀ depletion. Also induces degradation of glutathione peroxidase 4 (GPX4), via acetyl-CoA carboxylase (ACC).

Physical and Chemical Properties:

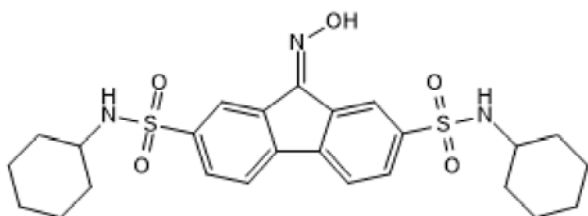
Batch Molecular Formula: C₂₅H₃₁N₃O₅S₂

Batch Molecular Weight: 517.66

Physical Appearance: White solid

Minimum Purity: >98%

Batch Molecular Structure:



References:

Cotto-Rios and Gavathiotis (2016) Chemical genetics: Unraveling cell death mysteries. *Nat.Chem.Biol.* **12** 470. PMID: 27315536.

Shimada et al (2016) Global survey of cell death mechanisms reveals metabolic regulation of ferroptosis. *Nat.Chem.Biol.* **12** 497. PMID: 27159577.

Storage: Store at +4°C

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.

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