

Certificate of Analysis

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Product Name: STF 083010

Catalog No.: 4509

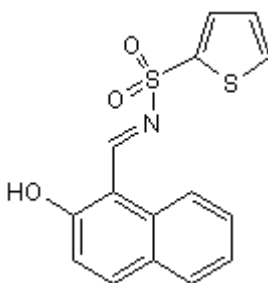
Batch No.: 1

CAS Number: 307543-71-1

IUPAC Name: *N*-[(2-Hydroxy-1-naphthalenyl)methylene]-2-thiophenesulfonamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₅H₁₁NO₃S₂
Batch Molecular Weight: 317.38
Physical Appearance: Yellow solid
Solubility: DMSO to 100 mM
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.6% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

	Carbon Hydrogen Nitrogen		
Theoretical	56.77	3.49	4.41
Found	56.74	3.52	4.42

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

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Description:

Inhibitor of IRE1 α endonuclease activity; blocks endogenous XBP1 mRNA splicing. Displays cytostatic and cytotoxic effects in CD138⁺ multiple myeloma (MM) cells in vitro; inhibits bortezomib-induced XBP1 activity in myeloma xenografts in vivo. Does not alter IRE1 α kinase activity.

Physical and Chemical Properties:

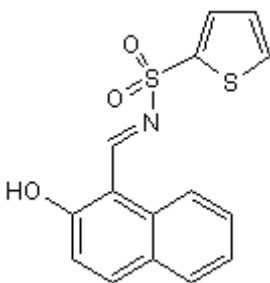
Batch Molecular Formula: C₁₅H₁₁NO₃S₂

Batch Molecular Weight: 317.38

Physical Appearance: Yellow solid

Minimum Purity: >98%

Batch Molecular Structure:



References:

Papandreou et al (2011) Identification of an Ire1alpha endonuclease specific inhibitor with cytotoxic activity against human multiple myeloma. *Blood*. **117** 1311. PMID: 21081713.

Kraskiewicz and FitzGerald (2012) InterfERing with endoplasmic reticulum stress. *Trends Pharmacol.Sci.* **33** 53. PMID: 22112465.

Storage: Store at -20°C

Solubility & Usage Info:

DMSO to 100 mM

This compound is moisture sensitive. Once prepared stock solutions should be used immediately.

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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