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: $\text{C}_{15}\text{H}_{11}\text{NO}_{3}\text{S}_{2}$  
   Batch Molecular Weight: 317.38  
   Physical Appearance: Yellow solid  
   Solubility: DMSO to 100 mM  
   Storage: Store at -20°C  

   Batch Molecular Structure:

   ![Molecular Structure]

2. ANALYTICAL DATA

   HPLC: Shows 99.6% purity  
   $^1\text{H NMR}$: 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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Catalog No.: 4509  Batch No.: 1

CAS Number: 307543-71-1
IUPAC Name: N-[(2-Hydroxy-1-naphthalenyl)methylene]-2-thiophenesulfonamide

Description:
Inhibitor of IRE1α 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 IRE1α kinase activity.

Physical and Chemical Properties:
Batch Molecular Formula: C_{10}H_{7}NO_{3}S_{2}
Batch Molecular Weight: 317.38
Physical Appearance: Yellow solid

Minimum Purity: >98%

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.

References: