

Certificate of Analysis

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Product Name: SPL 334

Catalog No.: 5809

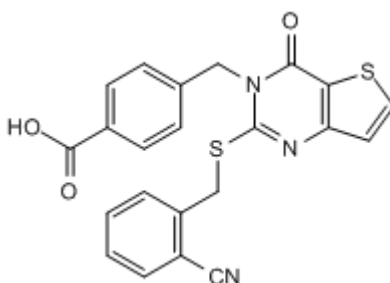
Batch No.: 1

CAS Number: 688347-51-5

IUPAC Name: 4-[[2-[[[(2-Cyanophenyl)methyl]thio]-4-oxothieno[3,2-*d*]pyrimidin-3(4*H*)-yl]methyl]benzoic acid

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₂H₁₅N₃O₃S₂
Batch Molecular Weight: 433.5
Physical Appearance: White solid
Solubility: DMSO to 100 mM
Storage: Store at +4°C
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.46 (Dichloromethane:Methanol [9:1])
HPLC: Shows 98.4% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

| | Carbon | Hydrogen | Nitrogen |
|-------------|--------|----------|----------|
| Theoretical | 60.96 | 3.49 | 9.69 |
| Found | 60.56 | 3.48 | 9.64 |

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

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Description:

S-Nitrosoglutathione reductase inhibitor. Prevents weight loss, and attenuates lung inflammation and fibrosis in a bleomycin injury model of interstitial lung disease in mice.

Physical and Chemical Properties:

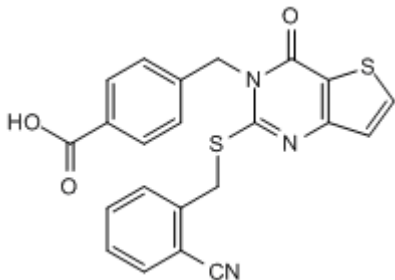
Batch Molecular Formula: C₂₂H₁₅N₃O₃S₂

Batch Molecular Weight: 433.5

Physical Appearance: White solid

Minimum Purity: >98%

Batch Molecular Structure:



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.

References:

Luzina et al (2015) Pharmacological *in vivo* inhibition of S-nitrosoglutathione reductase attenuates bleomycin-induced inflammation and fibrosis. *J.Pharmacol.Exp.Ther.* **355** 13. PMID: 26209236.

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