

Certificate of Analysis

Product Name: AM-TS23

Catalog No.: 5211

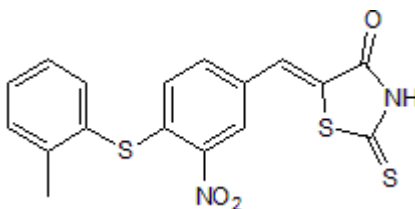
Batch No.: 1

CAS Number: 1489285-17-7

IUPAC Name: (5Z)-5-[[[4-(2-Methylphenyl)thio]-3-nitrophenyl]methylene]-2-thioxo-4-thiazolidinone

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₇H₁₂N₂O₃S₃
Batch Molecular Weight: 388.48
Physical Appearance: Yellow solid
Solubility: DMSO to 100 mM
Storage: Store at +4°C
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.38 (Ethyl acetate:Petroleum ether [1:4])
HPLC: Shows 99.3% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	52.56	3.11	7.21
Found	52.67	2.95	7.12

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

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Description:

DNA polymerase λ and β inhibitor (IC_{50} values are 3.9 and 18.2 μ M, respectively). Sensitizes human colorectal cancer cells to hydrogen peroxide and temozolomide (Cat. No. 2706) in vitro.

Physical and Chemical Properties:

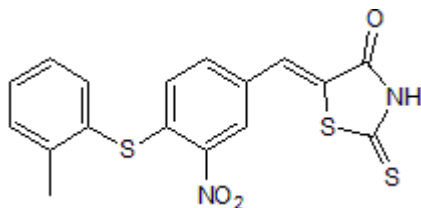
Batch Molecular Formula: $C_{17}H_{12}N_2O_3S_3$.

Batch Molecular Weight: 388.48

Physical Appearance: Yellow 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:

Strittmatter et al (2014) Expanding the scope of human DNA polymerase λ and β inhibitors. *ACS Chem.Biol.* **9** 282. PMID: 24171552.

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