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: C_{17}H_{12}N_{2}O_{3}S_{3}.
Batch Molecular Weight: 388.48
Physical Appearance: Yellow solid
Solubility: DMSO to 100 mM
Storage: Store at +4°C

2. ANALYTICAL DATA

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

<table>
<thead>
<tr>
<th></th>
<th>Theoretical</th>
<th>Found</th>
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</thead>
<tbody>
<tr>
<td>Carbon</td>
<td>52.56</td>
<td>52.67</td>
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<tr>
<td>Hydrogen</td>
<td>3.11</td>
<td>2.95</td>
</tr>
<tr>
<td>Nitrogen</td>
<td>7.21</td>
<td>7.12</td>
</tr>
</tbody>
</table>
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Description:
DNA polymerase λ and β inhibitor (IC₅₀ values are 3.9 and 18.2 μM, respectively). Sensitizes human colorectal cancer cells to hydrogen peroxide and temozolomide (Cat. No. 2706) in vitro.

Physical and Chemical Properties:
Batch Molecular Formula: C₁₇H₁₂N₂O₃S₃  
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:

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