Product Name: Mito\litazone

CAS Number: 146062-49-9
IUPAC Name: 5-[[4-[2-(5-Ethyl-2-pyridinyl)-2-oxoethoxy]phenyl]methyl]-2,4-thiazolidinedione

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{19}H_{18}N_{2}O_{4}S \cdot H_{2}O$
Batch Molecular Weight: 388.44
Physical Appearance: White solid
Solubility: DMSO to 100 mM
ethanol to 20 mM with gentle warming
Storage: Store at -20°C

2. ANALYTICAL DATA

HPLC: Shows 99% purity
$^1$H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

<table>
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<tr>
<th></th>
<th>Carbon</th>
<th>Hydrogen</th>
<th>Nitrogen</th>
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<td>4.98</td>
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Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use
**Product Name:** Mitozolim Catalo

**Catalog No.:** 5799  
**Batch No.:** 2

**CAS Number:** 146062-49-9  
**IUPAC Name:** 5-[[4-[2-(5-ethyl-2-pyridinyl)-2-oxoethoxy]phenyl]methyl]-2,4-thiazolidinedione

**Description:**
Insulin sensitizer; enhances insulin sensitivity and lowers blood-glucose levels in diabetic mouse models. Inhibits mitochondria pyruvate carriers; increases mitochondrial respiration rates, leading to a reduction in expression of lipogenic enzymes. Suppresses gluconeogenesis and lipogenesis in primary hepatocytes. Exhibits low binding affinity and activity at PPARγ (EC50 = 23.7 μM).

**Physical and Chemical Properties:**
- **Batch Molecular Formula:** C19H15N2O4S.H2O
- **Batch Molecular Weight:** 388.44
- **Physical Appearance:** White solid
- **Minimum Purity:** >98%

**Storage:** Store at -20°C

**Solubility & Usage Info:**
- DMSO to 100 mM
- ethanol to 20 mM with gentle warming

**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:**