

Certificate of Analysis

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Product Name: BTZO 1

Catalog No.: 4204

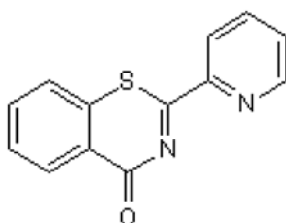
Batch No.: 1

CAS Number: 99420-15-2

IUPAC Name: 2-(2-Pyridinyl)-4H-1,3-benzothiazin-4-one

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₃H₈N₂OS
Batch Molecular Weight: 240.28
Physical Appearance: Golden Yellow crystalline solid
Solubility: DMSO to 20 mM with gentle warming
Storage: Store at RT
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.38 (Ethyl acetate:Petroleum ether [2:3])
HPLC: Shows 100% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

| | Carbon | Hydrogen | Nitrogen |
|-------------|--------|----------|----------|
| Theoretical | 64.98 | 3.36 | 11.66 |
| Found | 64.85 | 3.3 | 11.65 |

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

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IUPAC Name: 2-(2-Pyridinyl)-4H-1,3-benzothiazin-4-one

Description:

BTZO 1 binds macrophage migration inhibitory factor (MIF; $K_d = 68.6$ nM) and activates antioxidant response element (ARE)-mediated gene expression. BTZO 1 suppresses oxidative stress-induced cardiomyocyte apoptosis in vitro and is cardioprotective.

Physical and Chemical Properties:

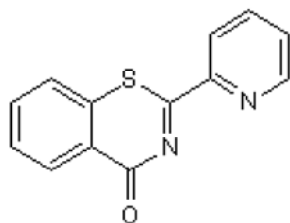
Batch Molecular Formula: C₁₃H₈N₂OS

Batch Molecular Weight: 240.28

Physical Appearance: Golden Yellow crystalline solid

Minimum Purity: ≥99%

Batch Molecular Structure:



References:

Kimura *et al* (2010) BTZO-1, a cardioprotective agent, reveals that macrophage migration inhibitor factor regulates ARE-mediated gene expression. *Chem.Biol.* **17** 1282. PMID: 21168764.

Storage: Store at RT

Solubility & Usage Info:

DMSO 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.

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