

Certificate of Analysis

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Product Name: Optovin

Catalog No.: 4901

Batch No.: 1

CAS Number: 348575-88-2

IUPAC Name: 5-[[2,5-Dimethyl-1-(3-pyridinyl)-1*H*-pyrrol-3-yl]methylene]-2-thioxo-4-thiazolidinone

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₅H₁₃N₃OS₂·¼H₂O

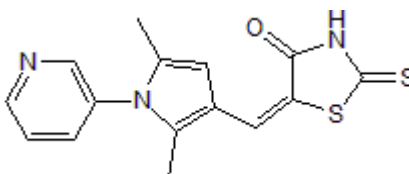
Batch Molecular Weight: 319.91

Physical Appearance: Orange solid

Solubility: DMSO to 100 mM

Storage: Store at +4°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.2% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	56.32	4.25	13.13
Found	56.37	4.14	13.1

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

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Description:

Reversible photoactive TRPA1 activator. Stimulates human TRPA1 channels in vitro and enables repeated photoactivation of motor behaviors in wild-type zebrafish ($EC_{50} = 2 \mu\text{M}$) and mice, in vivo.

Physical and Chemical Properties:

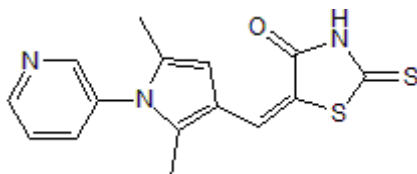
Batch Molecular Formula: $C_{15}H_{13}N_3OS_2 \cdot \frac{1}{4}H_2O$

Batch Molecular Weight: 319.91

Physical Appearance: Orange solid

Minimum Purity: >99%

Batch Molecular Structure:



Storage: Store at +4°C

CAUTION - This product is light sensitive and we recommend that the solid material and any solutions obtained are protected from exposure to light.

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:

Kokel *et al* (2013) Photochemical activation of TRPA1 channels in neurons and animals. *Nat.Chem.Biol.* **9** 257. PMID: 23396078.

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