

Certificate of Analysis

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Product Name: IT 901

Catalog No.: 5846

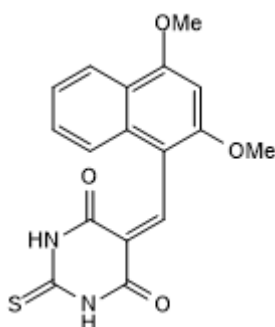
Batch No.: 2

CAS Number: 1584121-99-2

IUPAC Name: 5-[(2,4-Dimethoxy-1-naphthalenyl)methylene]dihydro-2-thioxo-4,6(1*H*,5*H*)-pyrimidinedione

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₇H₁₄N₂O₄S
Batch Molecular Weight: 342.37
Physical Appearance: Red solid
Solubility: DMSO to 100 mM
Storage: Store at -20°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	59.64	4.12	8.18
Found	59.82	3.99	8.38

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

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Description:

c-Rel inhibitor ($IC_{50} = 3 \mu M$). Inhibits IL-2 expression in activated T-cells in vitro. Reduces severity of graft-versus-host disease following hematopoietic stem cell transplant (HSCT) and inhibits growth of human B-cell lymphoma xenografts in mice. Inhibits the oxidative stress response in lymphoma cells.

Physical and Chemical Properties:

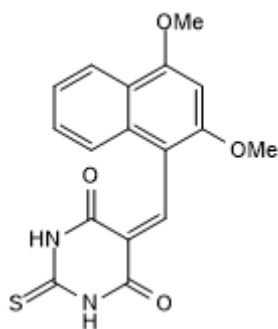
Batch Molecular Formula: $C_{17}H_{14}N_2O_4S$

Batch Molecular Weight: 342.37

Physical Appearance: Red solid

Minimum Purity: >98%

Batch Molecular Structure:



References:

Shono et al (2016) Characterization of a c-Rel inhibitor that mediates anticancer properties in hematologic malignancies by blocking NF- κ B-controlled oxidative stress responses. *Cancer Res.* **76** 377. PMID: 26744524.

Storage: Store at -20°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.

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