

**Product Name:** C 87

**Catalog No.:** 5484

**Batch No.:** 1

CAS Number: 332420-90-3

IUPAC Name: 3-Phenyl-1-(4-phenyl-2-thiazolyl)-1*H*-pyrazole-4,5-dione 4-[2-(4-chloro-3-nitrophenyl)hydrazono]

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>24</sub>H<sub>15</sub>ClN<sub>6</sub>O<sub>3</sub>S

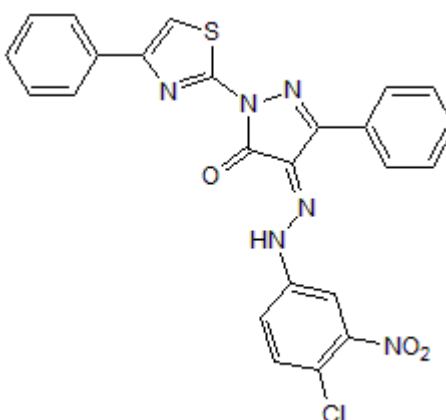
**Batch Molecular Weight:** 502.93

**Physical Appearance:** Orange solid

**Solubility:** DMSO to 20 mM

**Storage:** Store at +4°C

**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**HPLC:** Shows 98.3% purity

**Mass Spectrum:** Consistent with structure

**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	57.32	3.01	16.71
Found	57.4	2.98	16.44

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**Description:**

TNF- $\alpha$  inhibitor ( $K_d = 110$  nM for hTNF- $\alpha$ ). Inhibits TNF- $\alpha$ -induced cytotoxicity in L929 fibroblast cells. Attenuates inflammation and increases survival in a mouse hepatitis model.

**Physical and Chemical Properties:**

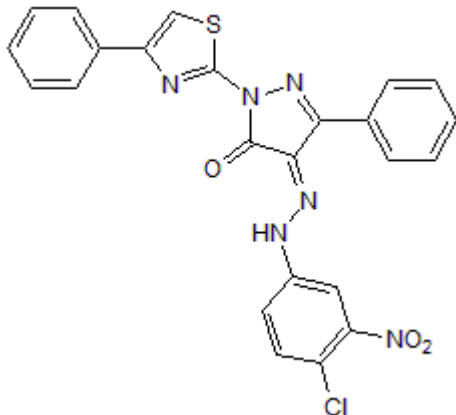
Batch Molecular Formula: C<sub>24</sub>H<sub>15</sub>ClN<sub>6</sub>O<sub>3</sub>S

Batch Molecular Weight: 502.93

Physical Appearance: Orange solid

**Minimum Purity:** >98%

**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 20 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:**

Ma *et al* (2014) A novel small-molecule tumor necrosis factor  $\alpha$  inhibitor attenuates inflammation in a hepatitis mouse model. *J.Biol.Chem.* **289** 12457. PMID: 24634219 .

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