

**Product Name:** CY 09

**Catalog No.:** 6436

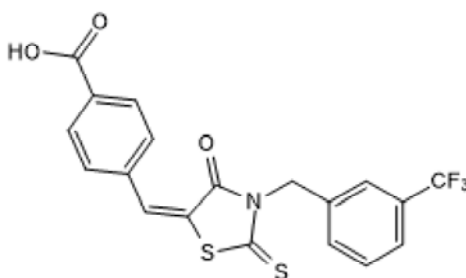
**Batch No.:** 1

CAS Number: 1073612-91-5

IUPAC Name: 4-[[4-Oxo-2-thioxo-3-[[3-(trifluoromethyl)phenyl]methyl]-5-thiazolidinylidene]methyl]benzoic acid

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>19</sub>H<sub>12</sub>F<sub>3</sub>NO<sub>3</sub>S<sub>2</sub>  
**Batch Molecular Weight:** 423.43  
**Physical Appearance:** Yellow solid  
**Solubility:** DMSO to 20 mM with gentle warming  
**Storage:** Store at +4°C  
**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**HPLC:** Shows 98.7% purity  
**<sup>1</sup>H NMR:** Consistent with structure  
**Mass Spectrum:** Consistent with structure

**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	53.89	2.86	3.31
Found	53.89	2.88	3.06

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

**Product Name:** CY 09

**Catalog No.:** 6436

**Batch No.:** 1

CAS Number: 1073612-91-5

IUPAC Name: 4-[[[4-Oxo-2-thioxo-3-[[3-(trifluoromethyl)phenyl]methyl]-5-thiazolidinylidene]methyl]benzoic acid

**Description:**

NLRP3 inhibitor ( $K_d = 500$  nM); directly binds to ATP-binding motif of NLRP3 NACHT domain. Blocks NLRP3 inflammasome assembly and activation. Displays therapeutic effects on mouse models of cryopyrin-associated autoinflammatory syndrome (CAPS) and type 2 diabetes. Exhibits no activity for hERG (10  $\mu$ M).

**Physical and Chemical Properties:**

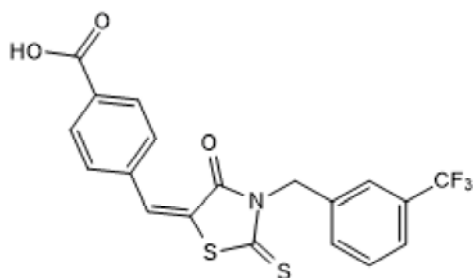
Batch Molecular Formula:  $C_{19}H_{12}F_3NO_3S_2$

Batch Molecular Weight: 423.43

Physical Appearance: Yellow solid

**Minimum Purity:** >98%

**Batch Molecular Structure:**



**References:**

Jiang *et al* (2017) Identification of a selective and direct NLRP3 inhibitor to treat inflammatory disorders. *J.Exp.Med.* **214** 3219. PMID: 29021150.

**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 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.

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

**bio-techne.com**

info@bio-techne.com

techsupport@bio-techne.com

**North America**

Tel: (800) 343 7475

**China**

info.cn@bio-techne.com

Tel: +86 (21) 52380373

**Europe Middle East Africa**

Tel: +44 (0)1235 529449

**Rest of World**

www.tocris.com/distributors

Tel:+1 612 379 2956