

## Certificate of Analysis

[www.tocris.com](http://www.tocris.com)

**Product Name:** Leukadherin 1

**Catalog No.:** 4921

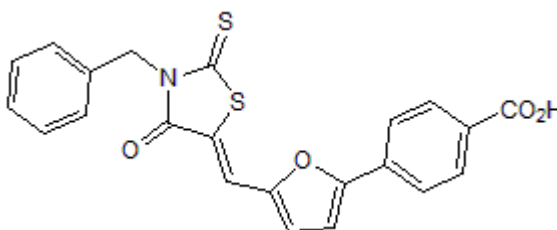
**Batch No.:** 1

CAS Number: 344897-95-6

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

### 1. PHYSICAL AND CHEMICAL PROPERTIES

**Batch Molecular Formula:** C<sub>22</sub>H<sub>15</sub>NO<sub>4</sub>S<sub>2</sub>  
**Batch Molecular Weight:** 421.49  
**Physical Appearance:** Orange solid  
**Solubility:** DMSO to 10 mM with gentle warming  
**Storage:** Store at +4°C  
**Batch Molecular Structure:**



### 2. ANALYTICAL DATA

**HPLC:** Shows 98% purity  
**<sup>1</sup>H NMR:** Consistent with structure  
**Mass Spectrum:** Consistent with structure

**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	62.69	3.59	3.32
Found	62.64	3.56	3.34

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

**Product Name:** Leukadherin 1

**Catalog No.:** 4921

**Batch No.:** 1

CAS Number: 344897-95-6

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

**Description:**

Allosteric activator of CD11b/CD18. Increases CD11b/CD18-dependent cell adhesion to fibrinogen ( $EC_{50} = 4 \mu\text{M}$ ). Decreases leukocyte motility and transendothelial migration; reduces inflammation. Also activates complement receptor 3 (CR3), and promotes CR3-dependent leukocyte adhesion to fibrinogen-coated surfaces.

**Physical and Chemical Properties:**

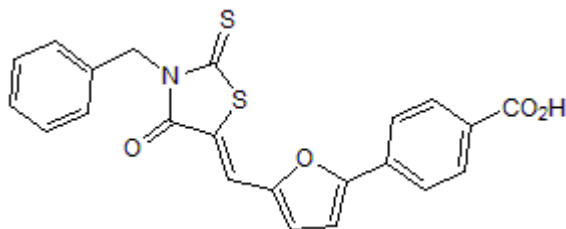
Batch Molecular Formula:  $C_{22}H_{15}NO_4S_2$

Batch Molecular Weight: 421.49

Physical Appearance: Orange solid

**Minimum Purity:** >98%

**Batch Molecular Structure:**



**References:**

**Maiguel et al** (2011) Small molecule-mediated activation of the integrin CD11b/CD18 reduces inflammatory disease. *Sci.Signal.* **4** 1. PMID: 21900205.

**Reed et al** (2013) Complement receptor 3 influences Toll-like receptor 7/8-dependent inflammation. *J.Biol.Chem.* **288** 9077. PMID: 23386618.

**Storage:** Store at +4°C

**Solubility & Usage Info:**

DMSO to 10 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