

## Certificate of Analysis

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

**Product Name:** G10

**Catalog No.:** 5944

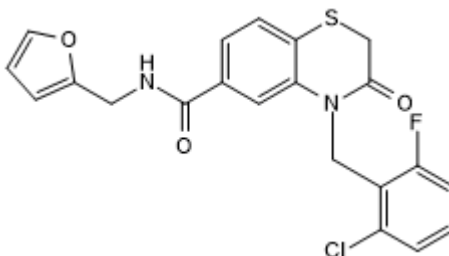
**Batch No.:** 1

**CAS Number:** 702662-50-8

**IUPAC Name:** 4-[(2-Chloro-6-fluorophenyl)methyl]-N-(2-furanylmethyl)-3,4-dihydro-3-oxo-2H-1,4-benzothiazine-6-carboxamide

### 1. PHYSICAL AND CHEMICAL PROPERTIES

**Batch Molecular Formula:** C<sub>21</sub>H<sub>16</sub>ClFN<sub>2</sub>O<sub>3</sub>S  
**Batch Molecular Weight:** 430.88  
**Physical Appearance:** Off White solid  
**Solubility:** DMSO to 100 mM  
 ethanol to 5 mM with gentle warming  
**Storage:** Store at -20°C  
**Batch Molecular Structure:**



### 2. ANALYTICAL DATA

**HPLC:** Shows 99.4% purity  
**<sup>1</sup>H NMR:** Consistent with structure  
**Mass Spectrum:** Consistent with structure

**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	58.54	3.74	6.5
Found	58.41	3.69	6.52

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

## Product Information

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

**Product Name:** G10

**Catalog No.:** 5944

**Batch No.:** 1

CAS Number: 702662-50-8

IUPAC Name: 4-[(2-Chloro-6-fluorophenyl)methyl]-N-(2-furanylmethyl)-3,4-dihydro-3-oxo-2H-1,4-benzothiazine-6-carboxamide

### Description:

Activator of STING-dependent signaling; exhibits no direct binding affinity for STING. Stimulates IRF-3-induced transcription and induces IFN $\alpha$  and IFN $\gamma$  gene expression in human fibroblasts. Exhibits no effect on NF- $\kappa$ B signaling. Blocks viral replication in vitro.

### Physical and Chemical Properties:

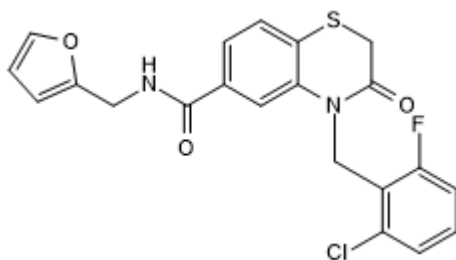
Batch Molecular Formula: C<sub>21</sub>H<sub>16</sub>ClFN<sub>2</sub>O<sub>3</sub>S

Batch Molecular Weight: 430.88

Physical Appearance: Off White solid

**Minimum Purity:** >98%

### Batch Molecular Structure:



**Storage:** Store at -20°C

### Solubility & Usage Info:

DMSO to 100 mM

ethanol to 5 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.

### References:

**Sali et al** (2015) Characterization of a novel human-specific STING agonist that elicits antiviral activity against emerging alphaviruses. *PLoS Pathog.* **11** e1005324. PMID: 26646986 .

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

**bio-techne.com**

[info@bio-techne.com](mailto:info@bio-techne.com)

[techsupport@bio-techne.com](mailto:techsupport@bio-techne.com)

**North America**

Tel: (800) 343 7475

**China**

[info.cn@bio-techne.com](mailto: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](http://www.tocris.com/distributors)

Tel: +1 612 379 2956