

**Product Name:** O8 OGG1 Inhibitor

**Catalog No.:** 6236

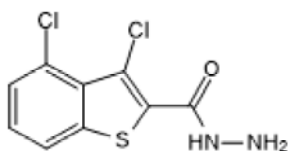
**Batch No.:** 1

CAS Number: 350997-39-6

IUPAC Name: 3,4-Dichlorobenzo[b]thiophene-2-carbohydrazide

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>9</sub>H<sub>6</sub>Cl<sub>2</sub>N<sub>2</sub>OS  
**Batch Molecular Weight:** 261.13  
**Physical Appearance:** White solid  
**Solubility:** DMSO to 100 mM  
**Storage:** Store at +4°C  
**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**HPLC:** Shows 99% purity  
**<sup>1</sup>H NMR:** Consistent with structure  
**Mass Spectrum:** Consistent with structure

**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	41.4	2.32	10.73
Found	41.38	2.24	10.69

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

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**Description:**

Potent and selective 8-oxoguanine DNA glycosylase 1 (OGG1) inhibitor (IC<sub>50</sub> = 0.2 μM in a gel based assay). Exhibits > 200-fold selectivity for OGG1 over other DNA glycosylases, NEIL1 and NTH1.

**Physical and Chemical Properties:**

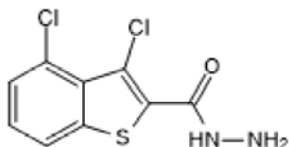
Batch Molecular Formula: C<sub>9</sub>H<sub>6</sub>Cl<sub>2</sub>N<sub>2</sub>OS

Batch Molecular Weight: 261.13

Physical Appearance: White solid

**Minimum Purity:** >98%

**Batch Molecular Structure:**



**Storage:** Store at +4°C

**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.

**References:**

Donley *et al* (2015) Small molecule inhibitors of 8-oxoguanine DNA glycosylase-1 (OGG1). ACS Chem.Biol. **10** 2334. PMID: 26218629.

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**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