

**Product Name:** MSA 2

**Catalog No.:** 7353

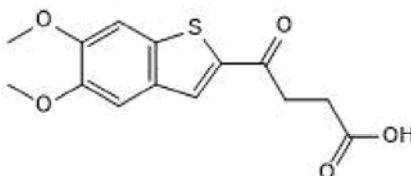
**Batch No.:** 1

CAS Number: 129425-81-6

IUPAC Name: 4-(5,6-Dimethoxybenzo[b]thiophen-2-yl)-4-oxobutanoic acid

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>14</sub>H<sub>14</sub>O<sub>5</sub>S  
**Batch Molecular Weight:** 294.32  
**Physical Appearance:** Off White solid  
**Solubility:** DMSO to 100 mM  
**Storage:** Store at -20°C  
**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**HPLC:** Shows 99.5% purity  
**<sup>1</sup>H NMR:** Consistent with structure  
**Mass Spectrum:** Consistent with structure  
**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	57.13	4.79	
Found	56.88	4.78	

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

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IUPAC Name: 4-(5,6-Dimethoxybenzo[b]thiophen-2-yl)-4-oxobutanoic acid

**Description:**

Non-nucleotide STING agonist (EC<sub>50</sub> values are 8.3 and 24 μM for human STING isoforms WT and HAQ, respectively). Exhibits antitumor activity and stimulates interferon-β secretion in tumors. Induces tumor regression with durable antitumor immunity, and synergizes with anti-PD-1 in syngeneic mouse tumor models. Orally bioavailable.

**Physical and Chemical Properties:**

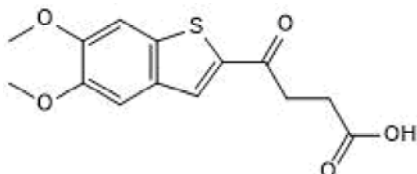
Batch Molecular Formula: C<sub>14</sub>H<sub>14</sub>O<sub>5</sub>S

Batch Molecular Weight: 294.32

Physical Appearance: Off White solid

**Minimum Purity:** ≥98%

**Batch Molecular Structure:**



**Storage:** Store at -20°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:**

Pan *et al* (2020) An orally available non-nucleotide STING agonist with antitumor activity. *Science* **369** eaba6098. PMID: 32820094.

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