



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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See the following pages for more information!



### Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

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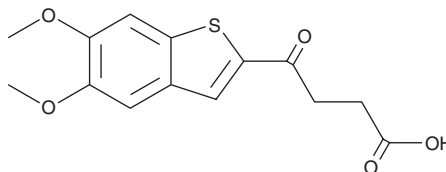
# PRODUCT INFORMATION



## MSA-2

Item No. 30140

**CAS Registry No.:** 129425-81-6  
**MF:** C<sub>14</sub>H<sub>14</sub>O<sub>5</sub>S  
**Synonym:** 5,6-dimethoxy-γ-oxo-benzo[b]thiophene-2-Butanoic Acid  
**FW:** 294.3  
**Purity:** ≥98%  
**UV/Vis.:** λ<sub>max</sub>: 213, 238, 324 nm  
**Supplied as:** A crystalline solid  
**Storage:** -20°C  
**Stability:** ≥2 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

### Laboratory Procedures

MSA-2 is supplied as a crystalline solid. A stock solution may be made by dissolving the MSA-2 in the solvent of choice, which should be purged with an inert gas. MSA-2 is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF). The solubility of MSA-2 in ethanol is approximately 1 mg/ml and approximately 30 mg/ml in DMSO and DMF.

### Description

MSA-2 is an agonist of stimulator of interferon genes (STING).<sup>1</sup> It binds to wild-type and HAQ variant STING in a <sup>3</sup>H-cGAMP filtration binding assay (EC<sub>50</sub>s = 2.48 and 1.72 μM, respectively) and induces secretion of IFN-β from THP-1 cells by 129% relative to induction by 2'3'-cGAMP (Item No. 19887) when used at a concentration of 30 μM. MSA-2 reduces tumor growth in an MC-38 syngeneic mouse model of colon carcinoma in a dose-dependent manner and induces tumor regression when administered intratumorally or subcutaneously at doses of 450 μg and 50 mg/kg, respectively.<sup>2</sup> It also acts synergistically with an anti-PD-1 antibody in MC-38, CT26, B16/F10, and LL/2 syngeneic mouse models.

### References

1. Altman, M.D., Cash, B.D., Chang, W., *et al.* Benzo[B]thiophene compounds as STING agonists. *Merck Sharp & Dohme Corp.* **US20180093964A1** (2018).
2. Pan, B.-S., Perera, S.A., Piesvaux, J.A., *et al.* An orally available non-nucleotide STING agonist with antitumor activity. *Science* **369** (6506), eaba6098 (2020).

#### WARNING

THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

#### SAFETY DATA

This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the [complete](#) Safety Data Sheet, which has been sent via email to your institution.

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