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Produktinformation

- Forschungsprodukte & Biochemikalien
- Zellkultur & Verbrauchsmaterial
- Diagnostik & molekulare Diagnostik
- Laborgeräte & Service

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Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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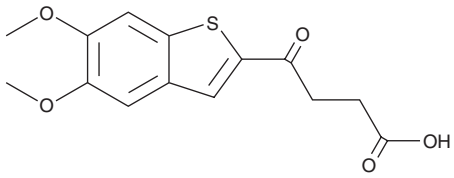
PRODUCT INFORMATION

MSA-2

Item No. 30140

CAS Registry No.: 129425-81-6
MF: $C_{14}H_{14}O_5S$
Synonym: 5,6-dimethoxy-γ-oxo-benzo[b] thiophene-2-Butanoic Acid
FW: 294.3
Purity: ≥98%
UV/Vis.: λ_{max}: 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).[1] It binds to wild-type and HAQ variant STING in a ^{3}H-cGAMP filtration binding assay (EC_{50}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.[2] 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).

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