



# SZABO SCANDIC

Part of Europa Biosite

## 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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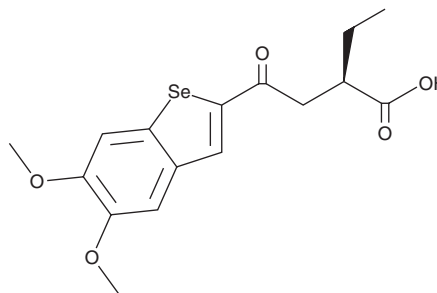
# PRODUCT INFORMATION



## BSP-16

Item No. 37992

**CAS Registry No.:** 2727249-47-8  
**Formal Name:** αR-ethyl-5,6-dimethoxy-γ-oxo-benzo[b]selenophene-2-butanoic acid  
**Synonym:** LF250  
**MF:** C<sub>16</sub>H<sub>18</sub>O<sub>5</sub>Se  
**FW:** 369.3  
**Purity:** ≥98%  
**UV/Vis.:** λ<sub>max</sub>: 218, 332 nm  
**Supplied as:** A solid  
**Storage:** -20°C  
**Stability:** ≥3 years



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

### Description

BSP-16 is a stimulator of interferon genes (STING) agonist.<sup>1</sup> It binds to STING ( $K_d = 23 \mu\text{M}$ ) and induces the production of IFN- $\beta$ , IL-6, and chemokine (C-X-C motif) ligand 10 (CXCL10) in THP-1 cells when used at concentrations of 10, 25, and 50  $\mu\text{M}$ . BSP-16 (50  $\mu\text{M}$ ) induces phosphorylation of IFN regulatory factor 3 (IRF3) and TANK-binding kinase 1 (TBK1) in THP-1 cells. *In vivo*, BSP-16 (15 and 30 mg/kg) reduces tumor volume in an MC-38 murine carcinoma model and induces tumor regression in a CT26 murine colorectal carcinoma model. It prevents tumor cell re-challenge-induced tumor formation in a CT26 murine carcinoma model. BSP-16 (20 mg/kg) also reduces tumor volume and increases the number of activated CD8<sup>+</sup> T cells and natural killer (NK) cells in a 4T1 murine mammary carcinoma model.

### Reference

1. Feng, X., Pan, L., Qian, Z., *et al.* Discovery of selenium-containing STING agonists as orally available antitumor agents. *J. Med. Chem.* **65**(22), 15048-15065 (2022).

#### 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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