



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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### Lieferung & Zahlungsart

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### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

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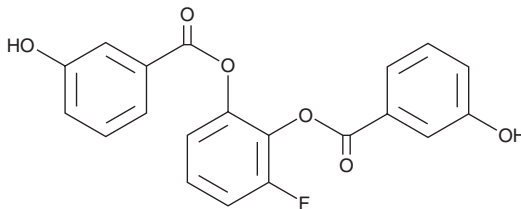
# PRODUCT INFORMATION



## WZB117

Item No. 19900

**CAS Registry No.:** 1223397-11-2  
**Formal Name:** 3-hydroxy-benzoic acid, (3-fluoro-1,2-phenylene)ester  
**Synonym:** Glucose Transporter Inhibitor IV  
**MF:** C<sub>20</sub>H<sub>13</sub>FO<sub>6</sub>  
**FW:** 368.3  
**Purity:** ≥98%  
**UV/Vis.:** λ<sub>max</sub>: 212, 242, 305 nm  
**Supplied as:** A crystalline solid  
**Storage:** -20°C  
**Stability:** As supplied, 2 years from the QC date provided on the Certificate of Analysis, when stored properly



### Laboratory Procedures

WZB117 is supplied as a crystalline solid. A stock solution may be made by dissolving the WZB117 in the solvent of choice. WZB117 is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF), which should be purged with an inert gas. The solubility of WZB117 in ethanol is approximately 10 mg/ml and approximately 20 mg/ml in DMSO and DMF.

WZB117 is sparingly soluble in aqueous solutions. To enhance aqueous solubility, dilute the organic solvent solution into aqueous buffers or isotonic saline. If performing biological experiments, ensure the residual amount of organic solvent is insignificant, since organic solvents may have physiological effects at low concentrations. We do not recommend storing the aqueous solution for more than one day.

### Description

WZB117 is an irreversible inhibitor of glucose transporter 1 (Glut1) that blocks glucose transport in diverse cancer cells (IC<sub>50</sub> = ~0.6 μM), reducing extracellular lactate and intracellular ATP levels.<sup>1</sup> It inhibits cancer cell proliferation (IC<sub>50</sub>s = 5-10 μM), resulting in cell cycle arrest, senescence, and necrosis or apoptosis.<sup>1,2</sup> These effects are enhanced by the anticancer drugs cisplatin (Item No. 13119) and paclitaxel (Item No. 10461). WZB117, given intraperitoneally at 10 mg/kg, significantly reduces tumor size in mice, with only small reductions in body weight and leukocyte count.<sup>1</sup> WZB117 also inhibits the self-renewal and tumor-initiating capacity of cancer stem cells, blocking tumor initiation after implantation of cancer stem cells in mice.<sup>3</sup>

### References

1. Liu, Y., Cao, Y., Zhang, W., *et al.* A small-molecule inhibitor of glucose transporter 1 downregulates glycolysis, induces cell-cycle arrest, and inhibits cancer cell growth *in vitro* and *in vivo*. *Mol. Cancer Ther.* **11**(8), 1672-1682 (2012).
2. Xintaropoulou, C., Ward, C., Wise, A., *et al.* A comparative analysis of inhibitors of the glycolysis pathway in breast and ovarian cancer cell line models. *Oncotarget* **6**(28), 25677-25695 (2015).
3. Shibuya, K., Okada, M., Suzuki, S., *et al.* Targeting the facilitative glucose transporter GLUT1 inhibits the self-renewal and tumor-initiating capacity of cancer stem cells. *Oncotarget* **6**(2), 651-661 (2015).

#### 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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