

Product Name: WZB 117

Catalog No.: 6143

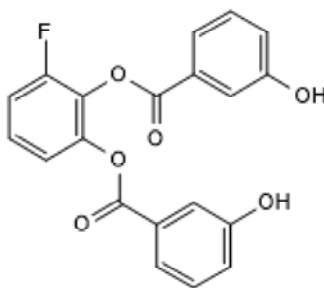
Batch No.: 1

CAS Number: 1223397-11-2

IUPAC Name: 3-Fluoro-1,2-phenylene bis(3-hydroxybenzoate)

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₀H₁₃FO₆
Batch Molecular Weight: 368.31
Physical Appearance: White solid
Solubility: DMSO to 100 mM
 ethanol to 100 mM
Storage: Store at +4°C
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.46 (Ethyl acetate:Petroleum ether [1:1])
HPLC: Shows 99.1% purity
¹H NMR: Consistent with structure
 Mass Spectrum: Consistent with structure
 Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	65.22	3.56	
Found	65.27	3.54	0.05

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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Description:

GLUT inhibitor ($K_{i(app)}$ values are 0.2, 10 and 10 μ M for GLUT4, GLUT1 and GLUT3, respectively). Competitive inhibitor of net glucose uptake but a noncompetitive inhibitor of sugar efflux from cells. Inhibits passive sugar transport in human erythrocytes and cancer cell lines. Attenuates erythrocyte 3-O-methylglucose (3MG) uptake in vitro ($K_i = 6 \mu$ M). Suppresses tumor growth in a nude mouse model.

Physical and Chemical Properties:

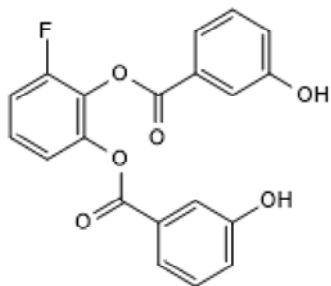
Batch Molecular Formula: $C_{20}H_{13}FO_6$

Batch Molecular Weight: 368.31

Physical Appearance: White solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store at +4°C

Solubility & Usage Info:

DMSO to 100 mM

ethanol 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:

Ojelabi et al (2016) WZB117 (2-Fluoro-6-(m-hydroxybenzoyloxy) Phenyl m-Hydroxybenzoate) inhibits GLUT1-mediated sugar transport by binding reversibly at the exofacial sugar binding site. *J.Biol.Chem.* **291** 26762. PMID: 27836974.

Koch et al (2015) Glucose transporter isoform 1 expression enhances metastasis of malignant melanoma cells. *Oncotarget* **6** 32748. PMID: 26293674.

Liu et al (2012) 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** 1672. PMID: 22689530.

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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