SZABO SCANDIC

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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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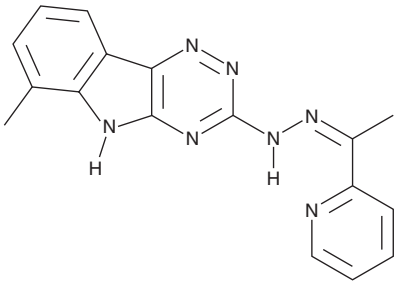
PRODUCT INFORMATION

VLX600

Item No. 17192

CAS Registry No.:	327031-55-0
Formal Name:	1-(2-pyridinyl)-ethanone, 2-(6-methyl-5H-1,2,4-triazino[5,6-b]indol-3-yl)hydrazone
MF:	$C_{17}H_{15}N_7$
FW:	317.4
Purity:	≥95%
UV/Vis.:	λ_{max}: 224, 262, 312, 370 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

VLX600 is supplied as a crystalline solid. A stock solution may be made by dissolving the VLX600 in the solvent of choice, which should be purged with an inert gas. VLX600 is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF). The solubility of VLX600 in ethanol is approximately 1 mg/ml and approximately 20 mg/ml in DMSO and DMF.

Description

VLX600 is a compound that shows cytotoxicity against quiescent cancer cells (IC_{50} = 1-10 µM) with selectivity for malignant cells.[1] It induces necrosis in non-proliferating quiescent core cells in multicellular spheroids (MCs) formed from HCT116 colon cancer cells.[1] VLX600 induces the expression of genes associated with hypoxia, glycolysis, and p53 signaling, stimulates autophagy, and triggers mitochondrial dysfunction in MCs.[1] It displays antitumor activity against colon cancer xenografts with minimal systemic toxicity in mice.[1]

Reference

1. Zhang, X., Fryknäs, M., Hernlund, E., *et al.* Induction of mitochondrial dysfunction as a strategy for targeting tumour cells in metabolically compromised microenvironments. *Nat. Commun.* **5**, 1-14 (2014).

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