SZABO SCANDIC

Part of Europa Biosite

Produktinformation

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

Weitere Information auf den folgenden Seiten!
See the following pages for more information!

Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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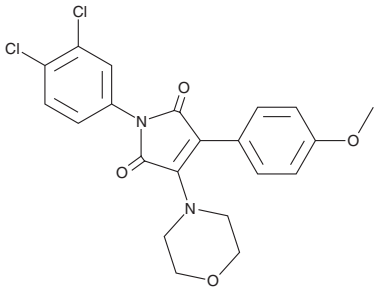
PRODUCT INFORMATION

RI-2

Item No. 18397



CAS Registry No.:	1417162-36-7
Formal Name:	1-(3,4-dichlorophenyl)-3-(4-methoxyphenyl)-4-(4-morpholinyl)-1H-pyrrole-2,5-dione
MF:	$C_{21}H_{18}Cl_2N_2O_4$
FW:	433.3
Purity:	≥98%
UV/Vis.:	λ_{max}: 264, 412 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

RI-2 is supplied as a crystalline solid. A stock solution may be made by dissolving the RI-2 in the solvent of choice. RI-2 is soluble in organic solvents such as DMSO and dimethyl formamide (DMF), which should be purged with an inert gas. The solubility of RI-2 in these solvents is approximately 2 and 10 mg/ml, respectively.

RI-2 is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, RI-2 should first be dissolved in DMF and then diluted with the aqueous buffer of choice. RI-2 has a solubility of approximately 0.3 mg/ml in a 1:2 solution of DMF:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Description

RI-2 is a reversible inhibitor of RAD51 (IC_{50} = 44.2 µM), a protein that is central to the homologous recombination process initiated upon DNA double-strand breaks and is often overexpressed in a wide range of human cancer cell types.[1] At 150 µM, it has been shown to inhibit DNA repair and to sensitize cancer cells to cross-linking chemotherapy *in vitro*.[1]

Reference

1. Budke, B., Kalin, J.H., Pawlowski, M., *et al.* An optimized RAD51 inhibitor that disrupts homologous recombination without requiring Michael acceptor reactivity. *J. Med. Chem.* **56(1)**, 254-263 (2013).

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