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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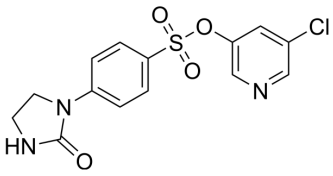
PYRIB-SO 2

Cat. No.:	HY-163523
Molecular Formula:	$C_{14}H_{12}ClN_3O_4S$
Molecular Weight:	353.78
Target:	Microtubule/Tubulin
Pathway:	Cell Cycle/DNA Damage; Cytoskeleton
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description

PYRIB-SO 2 is a potent antimitotic agent. PYRIB-SO 2 shows antiproliferative activity and induces cell cycle arrest at G2/M phase. PYRIB-SO 2 reduces and disruptes microtubule structures. PYRIB-SO 2 binds to the colchicine-binding site (C-BS) of α, β-tubulin[1].

In Vitro

PYRIB-SO 2 (150 nM; 24 h) induces cell cycle arrest at G2/M phase [1].
PYRIB-SO 2 (138 nM; 24 h) reduces and disruptes microtubule structures in MCF7 cells [1].
PYRIB-SO 2 (5, 50 μM) reduces the formation of the EBI:β-tubulin adduct [1].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Cell Proliferation Assay[1]

Cell Line:	MCF7, MDA-MB-468, MDA-MB-231 cells
Concentration:	0-500 nM
Incubation Time:	48 h
Result:	Showed antiproliferative activity with IC_{50}s of 50, 9, 220 nM for MCF7, MDA-MB-468 and MDA-MB-231 cells, respectively.

Cell Cycle Analysis[1]

Cell Line:	MCF7 cells
Concentration:	150 nM
Incubation Time:	24 h
Result:	Iduced cell cycle arrest at G2/M phase with the percentage of 77%.

REFERENCES

[1]. Ouellette V, et al. Modification of the phenyl ring B of phenyl 4-(2-oxoimidazolidin-1-yl)benzenesulfonates by pyridinyl moiety leads to novel antimitotics targeting the colchicine-binding site. Bioorg Med Chem Lett. 2024 Jun 1;105:129745.

Caution: Product has not been fully validated for medical applications. For research use only.

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