



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

SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

mail@szabo-scandic.com

www.szabo-scandic.com

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 

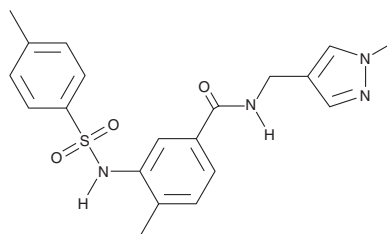
PRODUCT INFORMATION



S-72

Item No. 39083

CAS Registry No.: 2446799-14-8
Formal Name: 4-methyl-3-[[[4-methylphenyl]sulfonyl]amino]-N-[(1-methyl-1H-pyrazol-4-yl)methyl]-benzamide
MF: C₂₀H₂₂N₄O₃S
FW: 398.5
Purity: ≥98%
Supplied as: A 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

S-72 is supplied as a solid. A stock solution may be made by dissolving the S-72 in the solvent of choice, which should be purged with an inert gas. S-72 is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF). The solubility of S-72 in ethanol is approximately 30 mg/ml and approximately 20 mg/ml in DMSO and DMF.

Description

S-72 is an inhibitor of microtubule polymerization.¹ It inhibits microtubule polymerization in a cell-free assay when used at concentrations 1, 3, and 10 μM. S-72 reduces viability in MCF-7 and paclitaxel-resistant MCF-7/T breast cancer cells (IC₅₀s = 15.64 and 26.32 nM, respectively). It inhibits migration and invasion, as well as the percentage of wound closure in a scratch assay, in MCF-7 and MCF-7/T cells when used at a concentration of 50 nM. S-72 (100 nM) induces cell cycle arrest at the G₂/M phase in MCF-7/T cells, as well as induces apoptosis in those same cells. It also inhibits stimulator of interferon genes (STING) activation in MCF-7/T cells when used at a concentration of 100 nM. S-72 (15 mg/kg per day) inhibits tumor growth in MCF-7/T and MX-1/T mouse xenograft models of paclitaxel-resistant breast cancer.

Reference

1. Hou, Z., Lin, S., Du, T., *et al.* S-72, a novel orally available tubulin inhibitor, overcomes paclitaxel resistance via inactivation of the STING pathway in breast cancer. *Pharmaceuticals (Basel)* **16**(5), 749 (2023).

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.

WARRANTY AND LIMITATION OF REMEDY

Buyer agrees to purchase the material subject to Cayman's Terms and Conditions. Complete Terms and Conditions including Warranty and Limitation of Liability information can be found on our website.

Copyright Cayman Chemical Company, 09/08/2023

CAYMAN CHEMICAL

1180 EAST ELLSWORTH RD
ANN ARBOR, MI 48108 · USA

PHONE: [800] 364-9897
[734] 971-3335

FAX: [734] 971-3640

CUSTSERV@CAYMANCHEM.COM
WWW.CAYMANCHEM.COM