



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

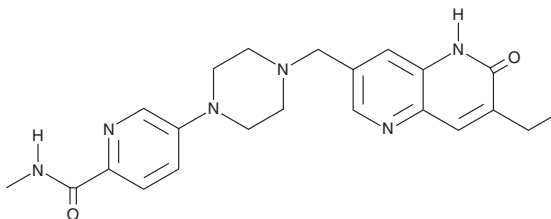


AZD 5305

Item No. 37769

CAS Registry No.: 2589531-76-8
Formal Name: 5-[4-[(7-ethyl-5,6-dihydro-6-oxo-1,5-naphthyridin-3-yl)methyl]-1-piperazinyl]-N-methyl-2-pyridinecarboxamide

MF: C₂₂H₂₆N₆O₂
FW: 406.5
Purity: ≥98%
UV/Vis.: λ_{max}: 222, 330 nm
Supplied as: A solid
Storage: -20°C
Stability: ≥4 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

AZD 5305 is supplied as a solid. A stock solution may be made by dissolving the AZD 5305 in the solvent of choice, which should be purged with an inert gas. AZD 5305 is soluble in organic solvents such as DMSO, and dimethyl formamide. The solubility of AZD 5305 in these solvents is approximately 0.1 and 0.5 mg/ml, respectively.

Description

AZD 5305 is an inhibitor of poly(ADP-ribose) polymerase 1 (PARP1; IC₅₀ = 0.003 μM).¹ It is selective for PARP1 over PARP2, PARP3, PARP5a, and PARP6 (IC₅₀s = 1.4, 3.4, >89, and 26 μM, respectively). AZD 5305 inhibits the proliferation of BRCA2^{-/-} DLD-1 colorectal cancer cells (IC₅₀ = 0.002 μM). It induces tumor regression in a patient-derived xenograft (PDX) mouse model of BRCA1 mutant triple-negative breast cancer (TNBC) when administered at doses ranging from 0.3 to 10 mg/kg.

Reference

1. Johannes, J.W., Balazs, A., Barratt, D., *et al.* Discovery of 5-[4-[(7-ethyl-6-oxo-5,6-dihydro-1,5-naphthyridin-3-yl)methyl]piperazin-1-yl]-N-methylpyridine-2-carboxamide (AZD5305): A PARP1–DNA trapper with high selectivity for PARP1 over PARP2 and other PARPs. *J. Med. Chem.* **64**(19), 14498-14512 (2021).

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, 05/10/2023

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