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

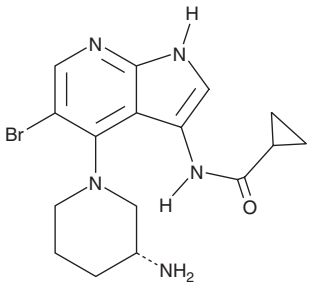
linkedin.com/company/szaboscandic

PRODUCT INFORMATION

GDC-0575

Item No. 34300

CAS Registry No.:	1196541-47-5
Formal Name:	N-[4-[(3R)-3-amino-1-piperidinyl]-5-bromo-1H-pyrrolo[2,3-b]pyridin-3-yl]-cyclopropanecarboxamide
MF:	$C_{16}H_{20}BrN_5O$
FW:	378.3
Purity:	≥98%
UV/Vis.:	λ_{max}: 251 nm
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

GDC-0575 is supplied as a solid. A stock solution may be made by dissolving the GDC-0575 in the solvent of choice, which should be purged with an inert gas. GDC-0575 is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF). The solubility of GDC-0575 in ethanol is approximately 1 mg/ml and approximately 30 mg/ml in DMSO and DMF.

GDC-0575 is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, GDC-0575 should first be dissolved in DMSO and then diluted with the aqueous buffer of choice. GDC-0575 has a solubility of approximately 0.16 mg/ml in a 1:5 solution of DMSO:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Description

GDC-0575 is an inhibitor of checkpoint kinase 1 (Chk1; IC_{50} = 1.2 nM).[1] It is greater than 30-fold selective for Chk1 over a panel of more than 450 wild-type and mutant kinases. GDC-0575 (500 nM) enhances apoptosis induced by cytarabine (Item No. 16069) in HL-60, KG-1, U937, and ML-1 human acute myeloid leukemia (AML) cells. It nearly completely eliminates tumor burden in AML patient-derived xenograft (PDX) mouse models when administered at a dose of 7.5 mg/kg in combination with cytarabine.

Reference

1. Di Tullio, A., Rouault-Pierre, K., Abarrategi, A., *et al.* The combination of CHK1 inhibitor with G-CSF overrides cytarabine resistance in human acute myeloid leukemia. *Nat. Commun.* **8(1)**, 1679 (2017).

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