



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)

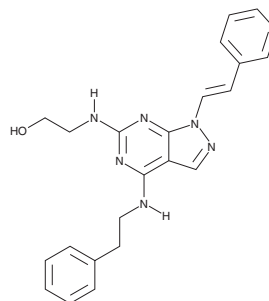
PRODUCT INFORMATION



SI-113

Item No. 37384

CAS Registry No.: 1392816-46-4
Formal Name: 2-[[1-(2-phenylethyl)-4-[(2-phenylethyl)amino]-1H-pyrazolo[3,4-d]pyrimidin-6-yl]amino]-ethanol
MF: C₂₃H₂₄N₆O
FW: 400.5
Purity: ≥95%
UV/Vis.: λ_{max}: 233, 270, 315 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

SI-113 is supplied as a solid. A stock solution may be made by dissolving the SI-113 in the solvent of choice, which should be purged with an inert gas. SI-113 is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF). The solubility of SI-113 in ethanol and DMF is approximately 30 mg/ml and approximately 15 mg/ml in DMSO.

Description

SI-113 is a serum/glucocorticoid-regulated kinase 1 (SGK1) inhibitor (IC₅₀ = 600 nM).¹ It is selective for SGK1 over c-Src and Abl kinases at 12.5 μM.² SI-113 (12.5 μM) is cytotoxic to MCF-7 breast cancer, A172 glioblastoma multiforme, and RKO colorectal adenocarcinoma cell lines. *In vivo*, SI-113, in combination with paclitaxel, reduces tumor volume, tumor weight, and SGK1 protein levels in a patient-derived xenograft (PDX) mouse model of ovarian cancer when administered at a dose of 9.3 mg/kg.⁴ SI-113 (100 μg/ml) is also active against *S. aureus* and *E. coli*.³

References

1. Greco, C., Taresco, V., Pearce, A.K., *et al.* Development of pyrazolo[3,4-d]pyrimidine kinase inhibitors as potential clinical candidates for glioblastoma multiforme. *ACS Med. Chem. Lett.* **11(5)**, 657-663 (2020).
2. D'Antona, L., Amato, R., Talarico, C., *et al.* SI113, a specific inhibitor of the Sgk1 kinase activity that counteracts cancer cell proliferation. *Cell. Physiol. Biochem.* **35(5)**, 2006-2018 (2015).
3. Greco, C., Catania, R., Balcco, D.L., *et al.* Synthesis and antibacterial evaluation of new pyrazolo[3,4-d]pyrimidines kinase inhibitors. *Molecules* **25(22)**, 5354 (2020).
4. D'Antona, L., Dattilo, V., Catalogna, G., *et al.* In preclinical model of ovarian cancer, the SGK1 inhibitor SI113 counteracts the development of paclitaxel resistance and restores drug sensitivity. *Transl. Oncol.* **12(8)**, 1045-1055 (2019).

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, 02/15/2023

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