



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

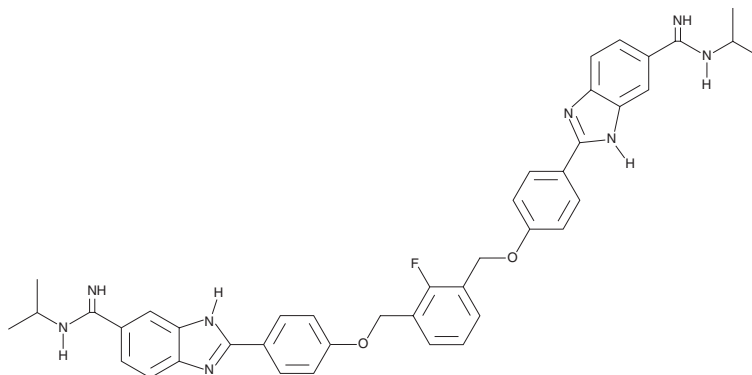


DB2313

Item No. 35021

CAS Registry No.: 2170606-74-1
Formal Name: 2,2'-[(2-fluoro-1,3-phenylene)bis(methyleneoxy-4,1-phenylene)]bis[N-(1-methylethyl)-1H-benzimidazole-6-carboximidamide]

MF: C₄₂H₄₁FN₈O₂
FW: 708.8
Purity: ≥98%
UV/Vis.: λ_{max}: 223, 264, 316 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

DB2313 is supplied as a solid. A stock solution may be made by dissolving the DB2313 in the solvent of choice, which should be purged with an inert gas. DB2313 is soluble in DMSO.

Description

DB2313 is an inhibitor of the transcription factor PU.1 (IC₅₀ = 14 nM).¹ Long-term exposure of DB2313 (300 nM) to Kit⁺/Sca-1⁺/Lin⁻ hematopoietic stem progenitor cells (KSL-HSPCs) reduces colony formation. DB2313 (700 nM) decreases ovalbumin-induced reprogramming of isolated mouse neutrophils into antigen-presenting cells.² It decreases tumor growth, weight, and volume in a U87MG glioblastoma multiforme mouse xenograft model when administered at a dose of 10 mg/kg per day.³

References

1. Antony-Debré, I., Paul, A., Leite, J., et al. Pharmacological inhibition of the transcription factor PU.1 in leukemia. *J. Clin. Invest.* **127(12)**, 4297-4313 (2017).
2. Mysore, V., Cullere, X., Mears, J., et al. FcγR engagement reprograms neutrophils into antigen cross-presenting cells that elicit acquired anti-tumor immunity. *Nat. Commun.* **12(1)**, 4791 (2021).
3. Zhang, S., Zhao, S., Qi, Y., et al. SPI1-induced downregulation of FTO promotes GBM progression by regulating pri-miR-10a processing in an m6A-dependent manner. *Mol. Ther. Nucleic Acids* **27**, 699-717 (2022).

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, 04/13/2023

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