



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



DG-172 (hydrochloride)

Item No. 19128

CAS Registry No.: 1361504-77-9

Formal Name: 2-bromo- α Z-[[4-(4-methyl-1-piperazinyl)phenyl]methylene]-benzeneacetonitrile, dihydrochloride

MF: $C_{20}H_{20}BrN_3 \cdot 2HCl$

FW: 455.2

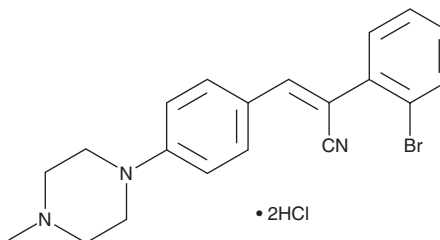
Purity: $\geq 98\%$

UV/Vis.: λ_{max} : 241, 348 nm

Supplied as: A crystalline solid

Storage: $-20^{\circ}C$

Stability: As supplied, 2 years from the QC date provided on the Certificate of Analysis, when stored properly



Laboratory Procedures

DG-172 (hydrochloride) is supplied as a crystalline solid. A stock solution may be made by dissolving the DG-172 (hydrochloride) in the solvent of choice. DG-172 (hydrochloride) is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF), which should be purged with an inert gas. The solubility of DG-172 (hydrochloride) in ethanol is approximately 20 mg/ml and approximately 25 mg/ml in DMSO and DMF.

DG-172 (hydrochloride) is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, DG-172 (hydrochloride) should first be dissolved in DMF and then diluted with the aqueous buffer of choice. DG-172 (hydrochloride) has a solubility of approximately 0.5 mg/ml in a 1:1 solution of DMF:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Description

DG-172 is an orally available inverse agonist of PPAR β/δ (IC_{50} = 27 nM), down-regulating transcription of ANGPTL4 in mouse myoblasts (IC_{50} = 9.5 nM).¹ It alters the differentiation of bone marrow cells, augmenting GM-CSF-induced development into subsets of mature and immature dendritic cells.² Inverse agonists of PPAR β/δ , including DG-172, inhibit cancer cell invasion through suppression of ANGPTL4 expression.³

References

1. Lieber, S., Scheer, F., Meissner, W., *et al.* (Z)-2-(2-bromophenyl)-3-[[4-(1-methyl-piperazine)amino]phenyl] acrylonitrile (DG172): An orally bioavailable PPAR β/δ -selective ligand with inverse agonistic properties. *J. Med. Chem.* **55**(6), 2858-2868 (2012).
2. Lieber, S., Scheer, F., Finkernagel, F., *et al.* The inverse agonist DG172 triggers a PPAR β/δ -independent myeloid lineage shift and promotes GM-CSF/IL-4-induced dendritic cell differentiation. *Mol. Pharmacol.* **87**(2), 162-173 (2015).
3. Adhikary, T., Brandt, D.T., Kaddatz, K., *et al.* Inverse PPAR β/δ agonists suppress oncogenic signaling to the ANGPTL4 gene and inhibit cancer cell invasion. *Oncogene* **32**(44), 5241-5252 (2013).

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, 06/14/2016

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