



# 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](mailto:mail@szabo-scandic.com)

[www.szabo-scandic.com](http://www.szabo-scandic.com)

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 

# PRODUCT INFORMATION



## BMS 502

Item No. 39303

**CAS Registry No.:** 2407854-18-4  
**Formal Name:** 8-[4-[bis(4-fluorophenyl)methyl]-1-piperazinyl]-5,6-dihydro-5-methyl-7-nitro-6-oxo-1,5-naphthyridine-2-carbonitrile

**MF:** C<sub>27</sub>H<sub>22</sub>F<sub>2</sub>N<sub>6</sub>O<sub>3</sub>

**FW:** 516.5

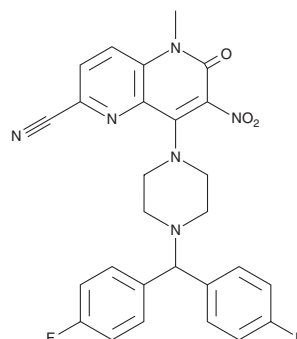
**Purity:** ≥98%

**UV/Vis.:** λ<sub>max</sub>: 232 nm

**Supplied as:** A solid

**Storage:** -20°C

**Stability:** ≥3 years



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

### Laboratory Procedures

BMS 502 is supplied as a solid. A stock solution may be made by dissolving the BMS 502 in the solvent of choice, which should be purged with an inert gas. BMS 502 is soluble in organic solvents such as DMSO and dimethyl formamide. The solubility of BMS 502 in these solvents is approximately 1 and 10 mg/ml, respectively.

### Description

BMS 502 is an inhibitor of diacylglycerol kinase  $\alpha$  (DGK- $\alpha$ ), DGK- $\zeta$ , and DGK- $\iota$  ( $IC_{50}$ s = 0.0046, 0.0021, and 0.0026  $\mu$ M, respectively).<sup>1</sup> It is selective for these DGKs over DGK- $\beta$ , DGK- $\gamma$ , and DGK- $\kappa$  ( $IC_{50}$ s = 1, 0.68, and 4.6  $\mu$ M, respectively). BMS 502 increases levels of IFN- $\gamma$  and phosphorylation of ERK in isolated human whole blood ( $EC_{50}$ s = 0.28 and 0.52  $\mu$ M, respectively). It also increases the proliferation of CD8<sup>+</sup> T cells ( $EC_{50}$  = 0.065  $\mu$ M), which express DGK- $\alpha$  and DGK- $\zeta$  but not DGK- $\iota$ . BMS 502 (0.3-10 mg/kg) increases the frequency of CD69<sup>+</sup>CD8<sup>+</sup> T cells when administered in combination with the peptide antigen SIINFEKL in OT I mice, which express modified murine T cell receptors that recognize SIINFEKL.

### Reference

1. Chupak, L., Wichroski, M., Zheng, X., *et al.* Discovery of potent, dual-inhibitors of diacylglycerol kinases alpha and zeta guided by phenotypic optimization. *ACS Med. Chem. Lett.* **14**(7), 929-935 (2023).

#### 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, 08/09/2023

#### 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](http://WWW.CAYMANCHEM.COM)