



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) 

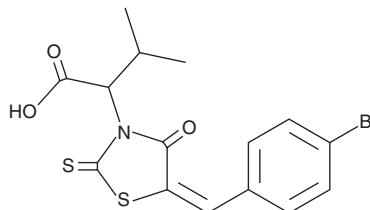
PRODUCT INFORMATION



BH3I-1

Item No. 18763

CAS Registry No.: 300817-68-9
Formal Name: 5-[(4-bromophenyl)methylene]-a-(1-methylethyl)-4-oxo-2-thioxo-3-thiazolidineacetic acid
MF: C₁₅H₁₄BrNO₃S₂
FW: 400.3
Purity: ≥95%
Stability: ≥2 years at -20°C
Supplied as: A crystalline solid
UV/Vis.: λ_{max}: 279, 382 nm



Laboratory Procedures

For long term storage, we suggest that BH3I-1 be stored as supplied at -20°C. It should be stable for at least two years.

BH3I-1 is supplied as a crystalline solid. A stock solution may be made by dissolving the BH3I-1 in the solvent of choice. BH3I-1 is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF), which should be purged with an inert gas. The solubility of BH3I-1 in ethanol is approximately 5 mg/ml and approximately 30 mg/ml in DMSO and DMF.

BH3I-1 is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, BH3I-1 should first be dissolved in DMSO and then diluted with the aqueous buffer of choice. BH3I-1 has a solubility of approximately 0.5 mg/ml in a 1:1 solution of DMSO:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Description

The family of Bcl-2 proteins plays pivotal roles in either promoting or preventing apoptosis. Bcl-2 family members contain one or more of four characteristic Bcl-2 homology (BH) domains, which are crucial for function. For example, anti-apoptotic Bcl-2 family proteins prevent death signaling by heterodimerizing with pro-death proteins at their BH3 domains.¹ BH3I-1 is a cell permeable inhibitor that blocks the binding of BH3 peptides to Bcl-xL, inducing apoptosis.² It inhibits interactions of BH3 domain-containing proteins with Bcl-xL, Bcl-2, and Bcl-W, inducing apoptosis in Bcl-2 or Bcl-W expressing cells with K_i values of 43.4 and 124 μM, respectively.^{3,4} BH3I-1 enhances radiation sensitivity in non-small cell lung cancer cells.³

References

1. Ni Chonghaile, T. and Letai, A. Mimicking the BH3 domain to kill cancer cells. *Oncogene* **27**(Suppl 1), S149-S157 (2008).
2. Degterev, A., Lugovskoy, A., Cardone, M., *et al.* Identification of small-molecule inhibitors of interaction between the BH3 domain and Bcl-xL. *Nat. Cell. Biol.* **3**(2), 173-182 (2001).
3. Roa, W., Chen, H., Alexander, A., *et al.* Enhancement of radiation sensitivity with BH3I-1 in non-small cell lung cancer. *Clin. Invest. Med.* **28**(2), 55-63 (2005).
4. Porter, J.R., Helmers, M.R., Wang, P., *et al.* Profiling small molecule inhibitors against helix-receptor interactions: The Bcl-2 family inhibitor BH3I-1 potently inhibits p53/hDM2. *Chem. Commun.* **46**(42), 8020-8022 (2010).

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, 01/27/2016

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