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

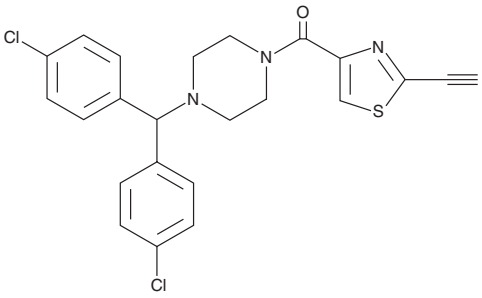
www.szabo-scandic.com

linkedin.com/company/szaboscandic

PRODUCT INFORMATION

BCP-T.A.

Item No. 37659



CAS Registry No.:	2786829-70-5
Formal Name:	[4-[*bis*(4-chlorophenyl)methyl]-1-piperazinyl](2-ethynyl-4-thiazolyl)-methanone
MF:	$C_{23}H_{19}Cl_2N_3OS$
FW:	456.4
Purity:	≥98%
Supplied as:	A solid
Storage:	-20°C
Stability:	≥2 years

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

Laboratory Procedures

BCP-T.A. is supplied as a solid. A stock solution may be made by dissolving the BCP-T.A. in the solvent of choice, which should be purged with an inert gas. BCP-T.A. is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide. The solubility of BCP-T.A. in these solvents is approximately 12, 10, and 3 mg/ml, respectively.

Description

BCP-T.A. is a ferroptosis inducer.[1] It induces ferroptosis in NCI H522 non-small cell lung cancer (NSCLC) cells (IC_{50} = 17 nM), an effect that can be blocked by the ferroptosis inhibitor liproxstatin-1 (Item No. 17730). BCP-T.A. binds to glutathione peroxidase (GPX4) and increases the accumulation of lipid peroxides in NCI H522 cells when used at a concentration of 0.5 µM. It is cytotoxic to WI38 human lung fibroblasts and mouse embryonic fibroblasts (MEFs; IC_{50}s = 22 and 10 nM, respectively), as well as NCI H522, HT-1080 fibrosarcoma, MDA-MB-468 and MDA-MB-231 breast, and HeLa cervical cancer cells (IC_{50}s = 17, 19, 84, 21, and 242 nM, respectively).

Reference

1. Karaj, E., Sindi, S.H., Kuganesan, N., *et al.* Tunable cysteine-targeting electrophilic heteroaromatic warheads induce ferroptosis. *J. Med. Chem.* **65(17)**, 11788-11817 (2022).

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