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Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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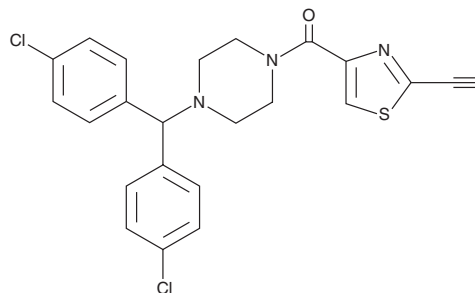
PRODUCT INFORMATION



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: C₂₃H₁₉Cl₂N₃OS
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 (IC₅₀ = 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; IC₅₀s = 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 (IC₅₀s = 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).

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.

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