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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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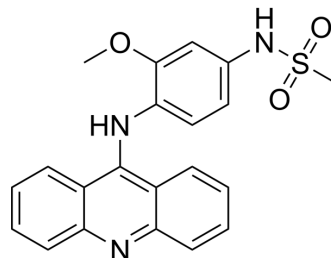
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Amsacrine (Standard)

| | |
|--------------------|---|
| Cat. No.: | HY-13551R |
| CAS No.: | 51264-14-3 |
| Molecular Formula: | C ₂₁ H ₁₉ N ₃ O ₃ S |
| Molecular Weight: | 393.46 |
| Target: | Autophagy; Topoisomerase |
| Pathway: | Autophagy; Cell Cycle/DNA Damage |
| Storage: | Please store the product under the recommended conditions in the Certificate of Analysis. |



BIOLOGICAL ACTIVITY

| | |
|---------------------------|---|
| Description | Amsacrine (Standard) is the analytical standard of Amsacrine. This product is intended for research and analytical applications. Amsacrine (m-AMSA; acridinyl anisidide) is an inhibitor of topoisomerase II, and acts as an antineoplastic agent which can intercalates into the DNA of tumor cells. |
| IC ₅₀ & Target | Topoisomerase II ^[1] |

REFERENCES

- [1]. Thomas D, et al. Inhibition of cardiac HERG currents by the DNA topoisomerase II inhibitor amsacrine: mode of action. *Br J Pharmacol*. 2004 Jun;142(3):485-94.
- [2]. Attia SM. Molecular cytogenetic evaluation of the mechanism of genotoxic potential of amsacrine and nocodazole in mouse bone marrow cells. *J Appl Toxicol*. 2013 Jun;33(6):426-33.
- [3]. Kao-Shan CS, et al. Cytogenetic effects of amsacrine on human lymphocytes in vivo and in vitro. *Cancer Treat Rep*. 1984 Jul-Aug;68(7-8):989-97.
- [4]. Lee YC, et al. Amsacrine-induced apoptosis of human leukemia U937 cells is mediated by the inhibition of AKT- and ERK-induced stabilization of MCL1. *Apoptosis*. 2016 Oct 19

Caution: Product has not been fully validated for medical applications. For research use only.

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