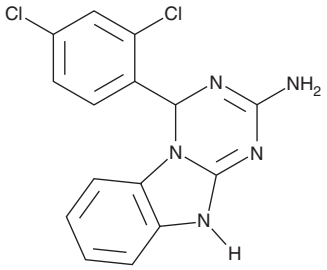
PRODUCT INFORMATION

Topoisomerase II Inhibitor 14

Item No. 46946



CAS Registry No.: 305343-00-4
Formal Name: 4-(2,4-dichlorophenyl)-1,4-dihydro-1,3,5-triazino[1,2-a]benzimidazol-2-amine
MF: $C_{15}H_{11}Cl_2N_5$
FW: 332.2
Purity: ≥98%
Supplied as: A solid
Storage: -20°C
Stability: ≥4 years

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

Laboratory Procedures

Topoisomerase II inhibitor 14 is supplied as a solid. A stock solution may be made by dissolving the topoisomerase II inhibitor 14 in the solvent of choice, which should be purged with an inert gas. Topoisomerase II inhibitor 14 is slightly soluble (0.1-1 mg/ml) in a 1:1 solution of acetonitrile:water.

Description

Topoisomerase II inhibitor 14 is an inhibitor of topoisomerase II.[1] It inhibits topoisomerase II by 87.86% in a cell-free assay. Topoisomerase II inhibitor 14 inhibits the proliferation of HN097 head and neck squamous cell carcinoma (HNSCC), MDA-MB-231 breast cancer, and HepG2 liver cancer cells (IC_{50}s = 4, 10, and 9 µg/ml, respectively) and induces apoptosis and cell cycle arrest at the G_2/M and S phases in HN097 cells.

Reference

1. Al-Karmalawy, A.A., Rashed, M., Sharaky, M., *et al.* Novel fused imidazotriazines acting as promising top. II inhibitors and apoptotic inducers with greater selectivity against head and neck tumors: Design, synthesis, and biological assessments. *Eur. J. Med. Chem.* **259,** 115661 (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
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