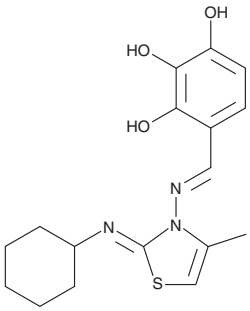
PRODUCT INFORMATION

MIM1

Item No. 19832

CAS Registry No.: 509102-00-5
Formal Name: 4-[[[2-(cyclohexylimino)-4-methyl-3(2H)-thiazolyl]imino]methyl]-1,2,3-benzenetriol
MF: $C_{17}H_{21}N_3O_3S$
FW: 347.4
Purity: ≥98%
UV/Vis.: λ_{max}: 210, 221, 261, 367 nm
Supplied as: A crystalline 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

MIM1 is supplied as a crystalline solid. A stock solution may be made by dissolving the MIM1 in the solvent of choice, which should be purged with an inert gas. MIM1 is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF). The solubility of MIM1 in these solvents is approximately 0.12, 20, and 30 mg/ml, respectively.

MIM1 is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, MIM1 should first be dissolved in DMF and then diluted with the aqueous buffer of choice. MIM1 has a solubility of approximately 0.14 mg/ml in a 1:6 solution of DMF:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Description

MIM1 is an inhibitor of Mcl-1, an antiapoptotic Bcl-2 family protein with a role in cancer. It selectively engages the canonical groove of Mcl-1, inhibiting its ability to bind BH3 domains (IC_{50} = 4.7 µM).[1] MIM1 induces caspase-3/7 activation and cell death in Mcl-1-dependent leukemia cells.[1]

Reference

1. Cohen, N.A., Stewart, M.L., Gavathiotis, E., *et al*. A competitive stapled peptide screen identifies a selective small molecule that overcomes MCL-1-dependent leukemia cell survival. *Chem. Biol*. **19(9)**, 1175-1185 (2012).

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, 11/04/2022

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