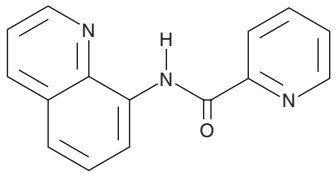
PRODUCT INFORMATION

UM4118

Item No. 45131

CAS Registry No.:	324530-92-9
Formal Name:	N-8-quinolinyl-2-pyridinecarboxamide
Synonym:	Hbpq
MF:	$C_{15}H_{11}N_3O$
FW:	249.3
Purity:	≥95%
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

UM4118 is supplied as a solid. A stock solution may be made by dissolving the UM4118 in the solvent of choice, which should be purged with an inert gas. UM4118 is sparingly soluble (1-10 mg/ml) in DMSO and slightly soluble (0.1-1 mg/ml) in ethanol.

Description

UM4118 is a copper ionophore.[1] It induces the uptake of copper in OCI-AML-5 acute myeloid leukemia (AML) cells when used at a concentration of 2 µM. It inhibits growth (IC_{50} = 1.1 µM) and induces a noncanonical form of cell death known as cuproptosis in OCI-AML-5 cells. UM4118-containing copper(II) complexes are cytotoxic to undifferentiated SH-SY5Y neuroblastoma cells at a concentration of 1 µM.[2]

References

1. Moison, C., Gracias, D., Schmitt, J., *et al. SF3B1* mutations provide genetic vulnerability to copper ionophores in human acute myeloid leukemia. *Sci. Adv.* **10(12)**, eadl4018 (2024).
2. Pavlidis, N., Kofinas, A., Papanikolaou, M.G., *et al.* Synthesis, characterization and pharmacological evaluation of quinoline derivatives and their complexes with copper(II) in in vitro cell models of Alzheimer's disease. *J. Inorg. Biochem.* **217**:111393 (2021).

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.

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