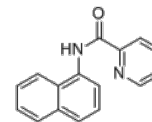


**Product Name** : UM4118  
**Cat. No.** : PC-22058  
**CAS No.** : 75358-95-1  
**Molecular Formula** : C<sub>16</sub>H<sub>12</sub>N<sub>2</sub>O  
**Molecular Weight** : 248.29  
**Target** : Apoptosis Inducer  
**Solubility** : 10 mM in DMSO



CAS: 75358-95-1

## Biological Activity

UM4118 is a potent, specific, and nongenotoxic molecule that acts as a copper ionophore, initiates a mitochondrial-based noncanonical form of cell death known as cuproptosis (IC<sub>50</sub>=40 nM, OCI-AML5 cells), disrupts intracellular metal homeostasis.

UM4118 is able to complex metals, in particular copper and zinc.

UM4118 acts as a copper ionophore which cytotoxicity relies on mitochondrial respiration

UM4118 induces cell death by cuproptosis

ABC7 overexpression partially rescued UM4118-induced cell death in SF3B1-mutated cells.

## References

Céline Moison, et al. Sci Adv. 2024 Mar 22;10(12):eadl4018.

**Caution: Product has not been fully validated for medical applications. Lab Use Only!**

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