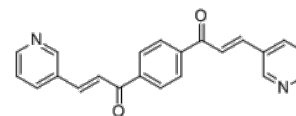


Product Name : MIDI
Cat. No. : PC-20116
CAS No. : 348145-43-7
Molecular Formula : C₂₂H₁₆N₂O₂
Molecular Weight : 340.38
Target : Other Targets
Solubility : 10 mM in DMSO



Biological Activity

MIDI (Mitochondrial division inhibitor) is a potent, covalent **mitochondrial fission** inhibitor, interacts with **DRP1-C367** to block mitochondrial fission.

MIDI potently blocks mitochondrial fragmentation induced by mitochondrial toxins and restores mitochondrial morphology in fusion-defective cells carrying pathogenic mitofusin and OPA1 mutations.

MIDI does not affect DRP1 tetramerization nor DRP1 GTPase activity but does block DRP1 recruitment to mitochondria.

MIDI targets DRP1 interaction with multiple receptors (MFF, MiD49, and MiD51) via covalent interaction with DRP1-C367.

References

Yang J, et al. *Cell Chem Biol.* 2023 Feb 17:S2451-9456(23)00033-8.

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

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