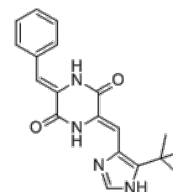


Product Name : Plinabulin
Cat. No. : PC-21390
CAS No. : 714272-27-2
Molecular Formula : C₁₉H₂₀N₄O₂
Molecular Weight : 336.39
Target : Microtubule/Tubulin
Solubility : 10 mM in DMSO



Biological Activity

Plinabulin (NPI-2358) is a small molecule vascular disrupting agent against **tubulin-depolymerizing**, shows IC₅₀ of 9.8 nM against HT-29 cells.

Plinabulin (NPI-2358) exhibits potent interruption of tumor blood flow because of the disruption of tumor vascular endothelial cells, resulting in tumor necrosis.

Plinabulin (NPI-2358) elicits tumor vascular endothelial architectural destabilization leading to selective collapse of established tumor vasculature.

Plinabulin (NPI-2358) also induces apoptotic cell death in MM cell lines and tumor cells from patients with MM, associated with mitotic growth arrest.

Plinabulin (NPI-2358) triggers JNK-mediated apoptosis and inhibits angiogenesis in multiple myeloma cells.

References

Yamazaki Y, et al. *J Med Chem*. 2012 Feb 9;55(3):1056-71.

Singh AV, et al. *Blood*. 2011 May 26;117(21):5692-700.

Nicholson B, et al. *Anticancer Drugs*. 2006 Jan;17(1):25-31.

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

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