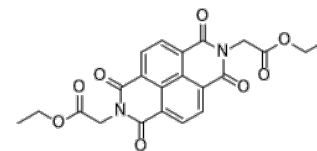


Product Name : Pin1 inhibitor PiB
Cat. No. : PC-25203
CAS No. : 64005-90-9
Molecular Formula : C₂₂H₁₈N₂O₈
Molecular Weight : 438.39
Target : Other Targets
Solubility : 10 mM in DMSO



CAS: 64005-90-9

Biological Activity

Pin1 inhibitor PiB is a specific small molecule inhibitor of parvulin family peptidyl prolyl isomerase (PPIase) Pin1 with IC₅₀ of 1.5 uM, inhibits Par14 as potently as Pin1 with IC₅₀ of 1.0 uM.

PiB shows limited activity against Cyclophilin C PPIase activity (IC₅₀>10 uM).

PiB inhibited proliferation of wild-type MEF (IC₅₀=1 uM), does not inhibit the growth of Pin1^{-/-} MEFs.

PiB exhibits anticell proliferation activities against cancer lines HSC2, HSC4, HCT116, Huh7, OVK2, SKOV3, and HepG2 with IC₅₀ of 0.7-4.8 uM.

PiB (1 uM) for 48 hr showed decreased expression of cyclins D1 and B1 in HCT116 cells, increased the population of cells in S phase at 48 hr after cells.

Pin1 inhibitor PiB protects rats against lipopolysaccharide-induced respiratory inflammation.

References

Uchida T, et al. Chem Biol. 2003 Jan;10(1):15-24.

Kouki A, et al. Eur J Pharmacol. 2025 Jul 31:178025.

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

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