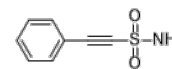


Product Name : Pifithrin- μ
Cat. No. : PC-24085
CAS No. : 64984-31-2
Molecular Formula : C₈H₇NO₂S
Molecular Weight : 181.21
Target : MDM2-p53
Solubility : 10 mM in DMSO



Biological Activity

Pifithrin- μ is a specific small molecule inhibitor of p53 and HSP70, shows antitumor and neuroprotective activity. inhibits p53 binding to mitochondria by reducing its affinity to antiapoptotic proteins Bcl-xL and Bcl-2 but has no effect on p53-dependent transactivation, activity of caspases 2, 8, 9 and 10 in a cell-free system, or NF- κ B-dependent transcription. reduces viability in A549 cells, with IC₅₀s of 44.9 and 25.7 μ M at 24 h and 48 h. Pifithrin- μ (20 μ M) suppresses the cell migration, induces cell cycle arrest and cell apoptosis in A549 and H460 cells. Pifithrin- μ (10 μ M, 20 μ M) inhibits activities of AKT, ERK, and Hsp70 in A549 and H460 cells. Pifithrin- μ (20 μ M) sensitizes A549 and H460 cell lines to TRAIL-induced cell proliferation inhibition and apoptosis.

References

Strom E, et al. Nat Chem Biol. 2006 Sep;2(9):474-9. Epub 2006 Jul 23.
Zhou Y, et al. Oncol Rep. 2017 Jan;37(1):313-322.

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

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