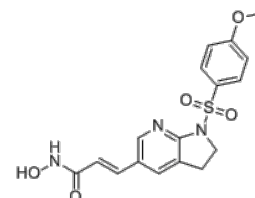


Product Name : MPT0B390
Cat. No. : PC-49104
CAS No. : 1817802-18-8
Molecular Formula : C₁₇H₁₇N₃O₅S
Molecular Weight : 375.40
Target : HDAC
Solubility : 10 mM in DMSO



Biological Activity

MPT0B390 (B390) is a selective **HDAC1/2** inhibitor and an effective inducer of metalloproteinase 3 (TIMP3), significantly upregulates TIMP3 expression in colorectal cancer cells.

MPT0B390 exhibits potent antiproliferative activity against human colon cancer cell line HCT116 with IC₅₀ of 0.03 μM.

MPT0B390 has lower IC₅₀ and greater effect when compared with other commonly used HDAC1/2 inhibitor, SAHA.

MPT0B390 inhibits cell growth of MIA PaCa-2 with IC₅₀ of 0.53 μM, with no effect on normal human pancreatic ductal epithelial cell line (HPDE-E6E7).

MPT0B390 upregulates DUSP2 expression and decreases ERK phosphorylation MIA PaCa-2 cells, exert antitumor effects via reinforcement of DUSP2 expression.

MPT0B390 inhibits pancreatic cancer migration, EV-VEGF-C expression, and proliferation of lymphatic endothelial cells.

MPT0B390 (12.5 mg/kg) reduces tumor-associated lymphangiogenesis and tumor invasion, alleviates cancer malignancy in KPC orthotopic mouse model.

References

- Huang HL, et al. *Theranostics*. 2019 Sep 18;9(22):6676-6689.
- Pei-Chi Hou, et al. *Cancer Res*. 2017 Aug 15;77(16):4305-4316.
- Chu-An Wang, et al. *Mol Cancer Ther*. 2021 Sep;20(9):1550-1560.

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

E-mail: tech@probechem.com