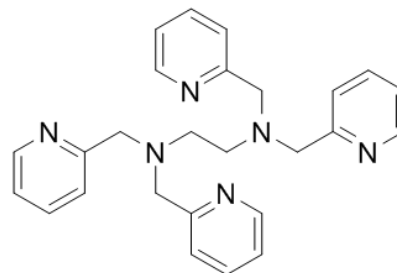


Product Name : TPEN
Cat. No. : PC-42082
CAS No. : 16858-02-9
Molecular Formula : C₂₆H₂₈N₆
Molecular Weight : 424.5407
Target : Other Targets
Solubility : 10 mM in DMSO
 4. Wang L, et al. **Cell Rep.** 2018 Jun 5;23(10):3091-3101.



Biological Activity

TPEN (TPEDA) is a potent, cell-permeable inhibitor of **LIN28** that abolishes LIN28-mediated oligouridylation with IC₅₀ of 2.5 μM, also is a specific cell-permeable **heavy metal chelator**.
 TPEN (TPEDA) completely inhibits LIN28-mediated oligouridylation at 40 μM.
 TPEN (TPEDA) targets only the C-terminal zinc-knuckle domain (ZKD) domain of LIN28 and causes drastic structural changes of the zinc knuckles and RNA-binding residues in the ZKD.
 TPEN (TPEDA) was previously shown to induce apoptosis by chelating Zn²⁺ in cells.

References

- Shumaker DK, et al. **Cell Calcium**. 1998 Feb-Mar;23(2-3):151-64.
 Ahn YH, et al. **Exp Neurol**. 1998 Nov;154(1):47-56.
 Makhov P, et al. **Cell Death Differ**. 2008 Nov;15(11):1745-51.

