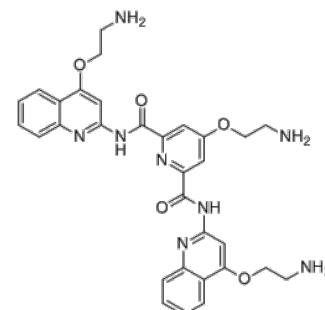


**Product Name** : Pyridostatin  
**Cat. No.** : PC-73357  
**CAS No.** : 1085412-37-8  
**Molecular Formula** : C<sub>31</sub>H<sub>32</sub>N<sub>8</sub>O<sub>5</sub>  
**Molecular Weight** : 596.6  
**Target** : DNA/RNA Synthesis  
**Solubility** : 10 mM in DMSO



## Biological Activity

Pyridostatin (RR82) is a high-affinity G-quadruplex-stabilizing small molecule (K<sub>d</sub>=490 nM), promotes the folding of telomeric G-quadruplexes, induces DNA damage and cell cycle arrest.

Pyridostatin targets the proto-oncogene Src, reducing Src protein abundance and Src-dependent motility in human breast cancer cells.

Pyridostatin also targets telomeric G-quadruplexes, inducing telomerase dysfunction.

Pyridostatin activates the DNA-dependent protein kinase catalytic subunit (DNA-PKcs).

Pyridostatin decreases the Epstein-Barr virus-encoded nuclear antigen 1 (EBNA1) synthesis.

## References

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Rodriguez R, et al. Nat Chem Biol. 2012 Feb 5;8(3):301-10.

Murat P, et al. Nat Chem Biol. 2014 May;10(5):358-64.

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

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