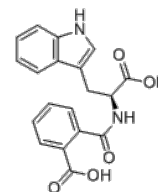


Product Name : RG108
Cat. No. : PC-20786
CAS No. : 48208-26-0
Molecular Formula : C₁₉H₁₄N₂O₄
Molecular Weight : 334.33
Target : DNA Methyltransferase (DNMT)
Solubility : 10 mM in DMSO



Biological Activity

RG108 (N-Phthalyl-L-tryptophan) is small molecule that effectively blocks **DNA methyltransferases** (DNMT) in vitro (IC₅₀=115 nM) and does not cause covalent enzyme trapping in human cell lines.

RG108 efficiently blocks DNA methylation, both in a cell-free in vitro system and in human cancer cell lines.

RG108 caused demethylation and reactivation of tumor suppressor genes, but it did not affect the methylation of centromeric satellite sequences. and dihydroartemisinin treatment synergize to trigger ferroptosis in cancer cells

References

Bodo Brueckner, et al. **Cancer Res.** 2005 Jul 15;65(14):6305-11.

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

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