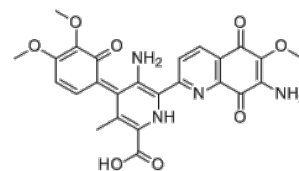


Product Name : Streptonigrin
Cat. No. : PC-61919
CAS No. : 3930-19-6
Molecular Formula : C₂₅H₂₂N₄O₈
Molecular Weight : 506.471
Target : Protein Arginine Deiminase (PAD)
Solubility : 10 mM in DMSO



Biological Activity

Streptonigrin (Bruneomycin, NSC 45383) is a potent, selective, and irreversible **PAD4** inactivator with IC₅₀ of 1.87 μM, also binds directly to **RAD54** with K_d of 9.1 μM, inhibits ATPase and DNA branch migration activity of RAD54. Streptonigrin inhibits branch migration of model Holliday junctions with IC₅₀ of 16.5 μM. Streptonigrin inhibits ATP hydrolysis with IC₅₀ of 14.4 μM, also binds and inhibits the SUMO-specific protease SENP1.

References

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Knuckley B, et al. *Chem Commun (Camb)*. 2010 Oct 14;46(38):7175-7.

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

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