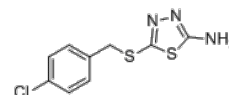


Product Name : Regacin
Cat. No. : PC-20322
CAS No. : 72836-33-0
Molecular Formula : C₉H₈ClN₃S₂
Molecular Weight : 257.75
Target : Bacterial
Solubility : 10 mM in DMSO



Biological Activity

Regacin is a potent, specific inhibitor of bacterial AraC-like virulence regulator RegA with IC₅₀ of 1.7 μM. Regacin does not inhibit the growth of *C. rodentium* and is not cytotoxic to mammalian cells. Regacin (100 μM) inhibits the synthesis and secretion of virulence proteins in *C. rodentium*. Regacin interferes with the binding of RegA to its DNA target. Regacin (50 mg/kg, oral) suppresses *C. rodentium* virulence, and reduces intestinal colonization. Regacin significantly inhibits the ability of RegA-related virulence regulatory proteins Rns and RegR to activate the transcription of their target promoters, but has little or no effect on the activity of AggR and ToxT.

References

Yang J, et al. J Biol Chem. 2013 Oct 25;288(43):31115-26.

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

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