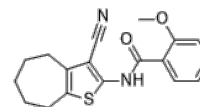


Product Name : JT71
Cat. No. : PC-25764
CAS No. : 380887-90-1
Molecular Formula : C₁₈H₁₈N₂O₂S
Molecular Weight : 326.41
Target : Bacterial
Solubility : 10 mM in DMSO



CAS: 380887-90-1

Biological Activity

JT71 is a potent, specific small molecule inhibitor of **MrkH** activity, reduces transcription of the type 3 fimbriae mrk operon, reduces *K. pneumoniae* mrkA promoter activity and biofilm formation.

JT71 (50 uM) inhibited MrkH-mediated mrkA promoter activity by approximately 50%.

JT71 inhibits transcription from both the mrkA and mrkH promoters, does not impair bacterial viability.

JT71 (50 uM) reduces type 3 fimbriae production of *K. pneumoniae*.

JT71 inhibits biofilm formation in other type 3 fimbriated *K. pneumoniae* and *Citrobacter koseri* isolates.

JT71 inhibits biofilm formation independently of c-di-GMP abundance.

References

Wilksch JJ, et al. *NPJ Biofilms Microbiomes*. 2025 Nov 20;11(1):212.

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

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