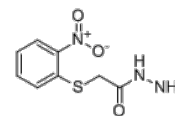


Product Name : MAC13772
Cat. No. : PC-20744
CAS No. : 4871-40-3
Molecular Formula : C₈H₉N₃O₃S
Molecular Weight : 227.24
Target : Bacterial
Solubility : 10 mM in DMSO



CAS: 4871-40-3

Biological Activity

MAC13772 is a small molecule inhibitor of **bacterial enzyme BioA** with IC₅₀ of 250 nM, the antepenultimate step in biotin biosynthesis, MAC13772 inhibits biotin biosynthesis.

MAC13772 is effective against antibiotic-resistant pathogens.

MAC13772 is capable of dampening the viability of carbapenem-resistant *P. aeruginosa* (CRPA).

MAC13772 interferes the production of pyocyanin, an important virulence factor of *P. aeruginosa*.

References

Zlitni S, et al. *Nat Chem Biol*. 2013 Dec;9(12):796-804.

Carfrae LA, et al. *Nat Microbiol*. 2020 Jan;5(1):93-101.

Shi Y, et al. *PLoS Pathog*. 2023 Jan 23;19(1):e1011110.

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

E-mail: tech@probechem.com