Screening Libraries

Product Data Sheet



4-(tert-Butyl)-benzhydroxamic Acid

Cat. No.: HY-114818 CAS No.: 62034-73-5 Molecular Formula: C₁₁H₁₅NO₂ Molecular Weight: 193.24 Target: Bacterial Pathway: Anti-infection

Storage: Powder -20°C 3 years

2 years

In solvent -80°C 6 months

> -20°C 1 month

SOLVENT & SOLUBILITY

In Vitro

DMSO: 100 mg/mL (517.49 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg	10 mg
	1 mM	5.1749 mL	25.8746 mL	51.7491 mL
	5 mM	1.0350 mL	5.1749 mL	10.3498 mL
	10 mM	0.5175 mL	2.5875 mL	5.1749 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

4-(tert-Butyl)-benzhydroxamic Acid is a PqsR antagonist with IC₅₀s of 12.5 μM and 23.6 μM for E. coli and P. aeruginosa, respectively. 4-(tert-Butyl)-benzhydroxamic Acid reduces the production of the virulence factor pyocyanin in P. aeruginosa with an IC₅₀ of 87.2 μ M^[1].

IC₅₀ & Target

IC50: 12.5 μM (PqsR in E. coli), 23.6 μM (PqsR in P. aeruginosa), 87.2 μM (virulence factor pyocyanin)^[1]

REFERENCES

[1]. Klein T, et al. Identification of small-molecule antagonists of the Pseudomonas aeruginosa transcriptional regulator PqsR: biophysically guided hit discovery and optimization. ACS Chem Biol. 2012 Sep 21;7(9):1496-501.

 $\label{lem:caution:Product} \textbf{Caution: Product has not been fully validated for medical applications. For research use only.}$

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