Methyl 2-amino-5-bromobenzoate

Cat. No.: HY-W007390

CAS No.: 52727-57-8

Molecular Formula: $C_8H_8BrNO_2$

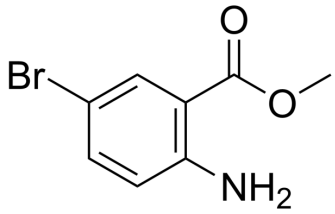
Molecular Weight: 230.06

Target: Bacterial

Pathway: Anti-infection

Storage: 4°C, protect from light

* In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro

DMSO : ≥ 300 mg/mL (1304.01 mM)

* "≥" means soluble, but saturation unknown.

Preparing Stock Solutions

Mass / Solvent / Concentration	1 mg	5 mg	10 mg
1 mM	4.3467 mL	21.7335 mL	43.4669 mL
5 mM	0.8693 mL	4.3467 mL	8.6934 mL
10 mM	0.4347 mL	2.1733 mL	4.3467 mL

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

BIOLOGICAL ACTIVITY

Description

Methyl 2-amino-5-bromobenzoate (compound 8/12) can be used for synthesis of 2-benzamidobenzoic acids, which are known FabH inhibitors. The derivates also inhibit PqsD, the pqs quorum sensing (QS) system of Pseudomonas aeruginosa, involving the production of a number of virulence factors and biofilm formation[1].

REFERENCES

[1]. Weidel E, et al. Structure optimization of 2-benzamidobenzoic acids as PqsD inhibitors for Pseudomonas aeruginosa infections and elucidation of binding mode by SPR, STD NMR, and molecular docking. J Med Chem. 2013 Aug 8;56(15):6146-55.

Caution: Product has not been fully validated for medical applications. For research use only.

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