

Product Data Sheet

Product Name: 2-Aminoimidazole

Cat. No.: GC61639

Chemical Properties

Cas. No. 7720-39-0

SMILES NC1=NC=CN1

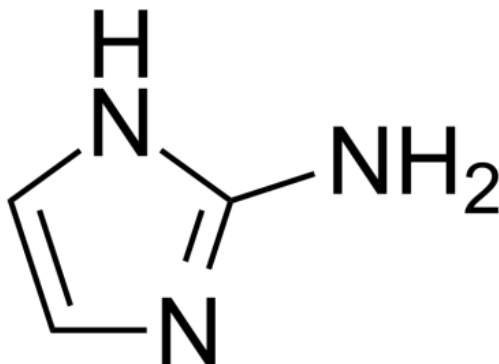
Formula C3H5N3 M.Wt 83.09

Solubility DMSO : 50 mg/mL (601.76 mM; Need ultrasonic) Storage 4°C, protect from light

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure



Background

2-Aminoimidazole is a potent antibiofilm agent that can be used as an adjuvant to antimicrobial. 2-aminoimidazoles disrupts the ability of bacteria to protect themselves by inhibiting biofilm formation

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

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and genetically-encoded antibiotic resistance traits. 2-Aminoimidazole is also a weak noncompetitive inhibitor of human arginase I with a K_i of 3.6 mM[1][2][3].

[1]. Thompson RJ, et, al. Identification of BfmR, a response regulator involved in biofilm development, as a target for a 2-Aminoimidazole-based antibiofilm agent. *Biochemistry*. 2012 Dec 11;51(49):9776-8. [2]. Jacobs L, et, al. 2-Aminoimidazoles as potent inhibitors of contaminating brewery biofilms. *Biofouling*. 2021 Feb 11;1-17. [3]. Ilies M, et, al. 2-aminoimidazole amino acids as inhibitors of the binuclear manganese metalloenzyme human arginase I. *J Med Chem*. 2010 May 27;53(10):4266-76.

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