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Produktinformation



Forschungsprodukte & Biochemikalien



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Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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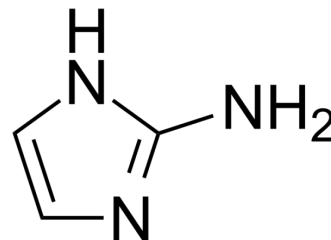
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2-Aminoimidazole

Cat. No.:	HY-W062216
CAS No.:	7720-39-0
Molecular Formula:	C ₃ H ₃ N ₃
Molecular Weight:	83.09
Target:	Bacterial; Arginase
Pathway:	Anti-infection; Immunology/Inflammation; Metabolic Enzyme/Protease
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 50 mg/mL (601.76 mM; Need ultrasonic)																													
	Preparing Stock Solutions	<table border="1"> <thead> <tr> <th>Solvent</th> <th>Mass</th> <th>1 mg</th> <th>5 mg</th> <th>10 mg</th> </tr> </thead> <tbody> <tr> <td>Concentration</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>1 mM</td> <td></td> <td>12.0351 mL</td> <td>60.1757 mL</td> <td>120.3514 mL</td> </tr> <tr> <td>5 mM</td> <td></td> <td>2.4070 mL</td> <td>12.0351 mL</td> <td>24.0703 mL</td> </tr> <tr> <td>10 mM</td> <td></td> <td>1.2035 mL</td> <td>6.0176 mL</td> <td>12.0351 mL</td> </tr> </tbody> </table>	Solvent	Mass	1 mg	5 mg	10 mg	Concentration					1 mM		12.0351 mL	60.1757 mL	120.3514 mL	5 mM		2.4070 mL	12.0351 mL	24.0703 mL	10 mM		1.2035 mL	6.0176 mL	12.0351 mL			
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Please refer to the solubility information to select the appropriate solvent.																														
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (30.09 mM); Clear solution																													
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (30.09 mM); Clear solution																													

BIOLOGICAL ACTIVITY

Description	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 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]} .
IC ₅₀ & Target	bacteria ^[1] Ki: 3.6 mM (human arginase I) ^[3]

REFERENCES

[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.

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

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