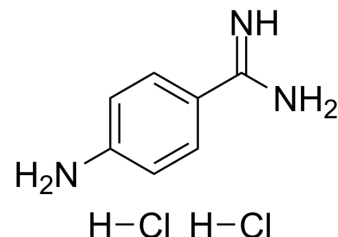


## 4-Aminobenzamidine dihydrochloride

<b>Cat. No.:</b>	HY-W018723
<b>CAS No.:</b>	2498-50-2
<b>Molecular Formula:</b>	C <sub>7</sub> H <sub>11</sub> Cl <sub>2</sub> N <sub>3</sub>
<b>Molecular Weight:</b>	208.09
<b>Target:</b>	Ser/Thr Protease
<b>Pathway:</b>	Metabolic Enzyme/Protease
<b>Storage:</b>	4°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



### SOLVENT & SOLUBILITY

<b>In Vitro</b>	DMSO : 25 mg/mL (120.14 mM; ultrasonic and warming and heat to 60°C)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	<b>Preparing Stock Solutions</b>	1 mM	4.8056 mL	24.0281 mL	48.0561 mL
		5 mM	0.9611 mL	4.8056 mL	9.6112 mL
		10 mM	0.4806 mL	2.4028 mL	4.8056 mL
Please refer to the solubility information to select the appropriate solvent.					
<b>In Vivo</b>	<ol style="list-style-type: none"> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 40% PEG300 &gt;&gt; 5% Tween-80 &gt;&gt; 45% saline Solubility: ≥ 1 mg/mL (4.81 mM); Clear solution</li> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 90% (20% SBE-β-CD in saline) Solubility: 1 mg/mL (4.81 mM); Clear solution; Need ultrasonic</li> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 90% corn oil Solubility: ≥ 1 mg/mL (4.81 mM); Clear solution</li> </ol>				

### BIOLOGICAL ACTIVITY

<b>Description</b>	4-Aminobenzamidine (p-Aminobenzamidine) dihydrochloride is a strong trypsin inhibitor, also acting as a relatively weak urokinase type plasminogen activator (uPA) inhibitor (K <sub>i</sub> =82 μM). 4-Aminobenzamidine can inhibit growth of a human prostate tumor in SCID mice <sup>[1][2]</sup> .
<b>IC<sub>50</sub> &amp; Target</b>	Trypsin <sup>[1]</sup> K <sub>i</sub> : 82 μM (uPA) <sup>[1]</sup>

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## CUSTOMER VALIDATION

- Bioorg Chem. November 2022, 106109.

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## REFERENCES

[1]. Nguyen AL, et al. The development and application of a new affinity partitioning system for enzyme isolation and purification. Enzyme Microb Technol. 1990 Sep;12(9):663-8.

[2]. Billström A, et al. The urokinase inhibitor p-aminobenzamidine inhibits growth of a human prostate tumor in SCID mice. Int J Cancer. 1995 May 16;61(4):542-7.

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

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