

4-Aminopyridine

Catalog No: tcsc2822



Available Sizes

Size: 5g

Size: 10g



Specifications

CAS No:

504-24-5

Formula:

$C_5H_6N_2$

Pathway:

Membrane Transporter/Ion Channel

Target:

Potassium Channel

Purity / Grade:

>98%

Solubility:

DMSO : ≥ 50 mg/mL (531.29 mM); H₂O : 50 mg/mL (531.29 mM; Need ultrasonic)

Alternative Names:

4-AP; 4-Pyridinamine; Fampridine

Observed Molecular Weight:

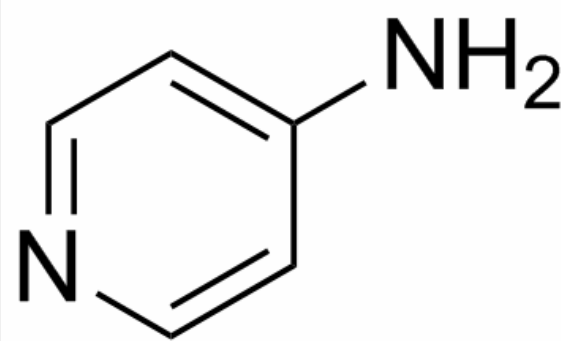
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Product Description

4-Aminopyridine is a nonselective K⁺ channel blocker that binds from the cytoplasmic side of the cell membrane.

Target: Potassium Channel

4-Aminopyridine(4AP) is a nonselective K⁺ channel blocker that binds from the cytoplasmic side of the cell membrane. 4AP strongly potentiates transmitter release from the unmyelinated terminals of rat motor nerves, and the possibility arose that demyelinated axon membrane, which can conduct impulses continuously like an unmyelinated fibre, might further resemble its unmyelinated terminals by responding to 4AP. In testing this hypothesis [1]. 4-AP blocked channels from the cytosolic face. 4-AP can both enhance and block Kv1.5 current and suggest that 4-AP can bind with different affinities to more than one site on Kv1.5 channels [2].



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