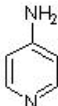


Product datasheet

4-Aminopyridine (4-AP), K⁺ channel blocker ab120122

[11 References](#) [2 Images](#)

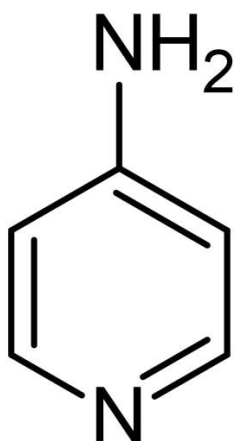
Overview

Product name	4-Aminopyridine (4-AP), K ⁺ channel blocker
Description	K ⁺ channel blocker
Biological description	Potassium channel blocker. Blocks Kv channels. Convulsant, and useful tool to model epileptiform activity <i>in vitro</i> .
CAS Number	504-24-5
Chemical structure	

Properties

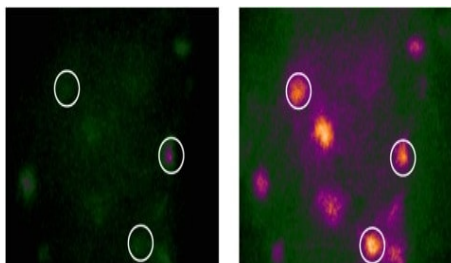
Chemical name	4-Aminopyridine
Molecular weight	94.12
Molecular formula	C ₅ H ₆ N ₂
PubChem identifier	1727
Storage instructions	Store at Room Temperature. The product can be stored for up to 12 months.
Solubility overview	Soluble in water to 100 mM
Handling	<p>Wherever possible, you should prepare and use solutions on the same day. However, if you need to make up stock solutions in advance, we recommend that you store the solution as aliquots in tightly sealed vials at -20°C. Generally, these will be useable for up to one month. Before use, and prior to opening the vial we recommend that you allow your product to equilibrate to room temperature for at least 1 hour.</p> <p>Toxic, refer to SDS for further information.</p> <p>Need more advice on solubility, usage and handling? Please visit our frequently asked questions (FAQ) page for more details.</p>
SMILES	Nc1ccncc1
Source	Synthetic

Images



2D chemical structure image of ab120122, 4-Aminopyridine (4-AP), K⁺ channel blocker

Chemical Structure - 4-Aminopyridine (4-AP), K⁺ channel blocker (ab120122)



4-AP-induced LFPs provoke AP firing from SST-interneurons. Representative images of GCaMP3 signal in a visual field containing several SST interneurons before (left) and during (right) LFPF-CA3/DG (induced with 4-AP).

Grosser S et al., PloS one., 9(1): e86250. Fig 3A.; doi: 10.1371/journal.pone.0086250

Immunocytochemistry/ Immunofluorescence - 4-Aminopyridine (4-AP), K⁺ channel blocker (ab120122)

Image from Grosser S et al., PloS one., 9(1): e86250. Fig 3A.; doi: 10.1371/journal.pone.0086250
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