

Pyridostigmine (bromide)

Catalog No: tcsc2148

 Available Sizes

 Size: 1g

 Size: 5g

 \bigcirc Specifications

 CAS No:

 101-26-8

 Formula:

 $C_9H_{13}BrN_2O_2$

 Pathway:

 Neuronal Signaling

 Target:

 AChE

Purity / Grade:

>98%

Solubility: H2O : 8.8 mg/mL (33.70 mM; Need ultrasonic and warming)

Observed Molecular Weight:

261.12

Product Description

Pyridostigmine is a parasympathomimetic and a reversible cholinesterase inhibitor.

Target: AChE

Pyridostigmine is a parasympathomimetic and a reversible cholinesterase inhibitor. Since it is a quaternary amine, it is poorly absorbed in the gut and does not cross the blood-brain barrier, except possibly in stressful conditions. Pyridostigmine inhibits



acetylcholinesterase in the synaptic cleft, thus slowing down the hydrolysis of acetylcholine. It is a quaternary carbamate inhibitor of cholinesterase that does not cross the blood-brain barrier which carbamylates about 30% of peripheral cholinesterase enzyme. The carbamylated enzyme eventually regenerates by natural hydrolysis and excess ACh levels revert to normal.

Pyridostigmine is used to treat muscle weakness in people with myasthenia gravis and to combat the effects of curariform drug toxicity. Pyridostigmine bromide has been FDA approved for military use during combat situations as an agent to be given prior to exposure to the nerve agent Soman in order to increase survival. Used in particular during the first Gulf War, pyridostigmine bromide has been implicated as a causal factor in Gulf War syndrome. Pyridostigmine sometimes is used to treat orthostatic hypotension. It may also be of benefit in chronic axonal polyneuropathy.



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