

Product Data Sheet

Product Name: Pralidoxime iodide

Cat. No.: GC39656

Chemical Properties

Cas. No. 94-63-3

SMILES C[N+]1=CC=CC=C1/C=N/O.[I-]

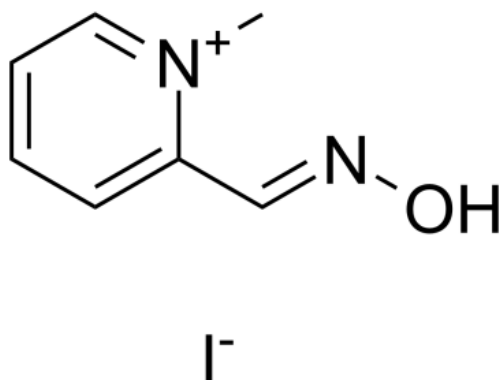
Formula C7H9IN2O M.Wt 264.06

Solubility DMSO: 250 mg/mL (946.75 mM) Storage Store at -20°C, protect from light

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution: ship with blue ice All other available size: ship with RT, or blue ice upon request.

Structure



Background

Pralidoxime iodide is a reactivator of acetylcholinesterase (AChE). Pralidoxime iodide reactivates nerve agent, which inhibits AChE via direct nucleophilic attack by the oxime moiety on the phosphorus center of the bound nerve agent. Pralidoxime iodide is an antidote for organophosphate poisoning[1][2].

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

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[1]. Cadieux CL, et al. Probing the activity of a non-oxime reactivator for acetylcholinesterase inhibited by organophosphorus nerve agents. Chem Biol Interact. 2016;259(Pt B):133-141. [2]. Eyer P, Buckley N. Pralidoxime for organophosphate poisoning. Lancet. 2006;368(9553):2110-2111. [3]. Houzé P, et al. High Dose of Pralidoxime Reverses Paraoxon-Induced Respiratory Toxicity in Mice. Turk J Anaesthesiol Reanim. 2018;46(2):131-138.

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