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**Product Data Sheet**

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Product Name: Azatadine

Cat. No.: GC14070

**Chemical Properties**

Cas. No. 3964-81-6

Chemical Name 11-(1-methylpiperidin-4-ylidene)-5,6-dihydrobenzo[1,2]cyclohepta[3,4-b]pyridine

SMILES CN1CCC(=C2C3=CC=CC=C3CCC4=C2N=CC=C4)CC1Formula  $C_{20}H_{22}N_2$  M.Wt 290.4

Solubility Soluble in DMSO Storage Store at -20°C

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**

Azatadine is an histamine and cholinergic inhibitor with IC<sub>50</sub> of 6.5 nM and 10 nM, respectively. Target: Histamine Receptor. Azatadine, a new antihistamine, was evaluated for its efficacy in 20 patients with chronic allergic rhinitis. Eighty percent of patients had symptomatic relief with a twice daily dosage of 2 mg. Sedation was volunteered as a side effect by six of the patients and was admitted by two further patients after specific questioning. A choice reaction time test gave slowing of motor function in these sedated patients. Four of the previously sedated patients experienced good symptomatic control with minimal sedation when the azatadine dose was reduced to 1 mg twice daily; slowing of motor function was not observed at this, the normal recommended dose. Azatadine delays the onset of dyspnea induced by aerosolized histamine, acetylcholine and serotonin in the conscious guinea-pig with PD<sub>50</sub> of 0.01 mg/kg, 0.739 mg/kg and 0.86 mg/kg. Azatadine protects conscious guinea-pigs against death induced by the intravenous injection of histamine with oral PD<sub>50</sub> of 0.009 mg/kg in guinea-pig and 0.22 mg/kg in mice.

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

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### References:

- [1]. Wilson JD, et al. Azatadine maleate (Zadine): evaluation in the management of allergic rhinitis. N Z Med J. 1981 Aug 12;94(689):79-81.
- [2]. Tozzi S, et al. The pharmacology of azatadine, a potential antiallergy drug. Agents Actions. 1974 Oct;4(4):264-70.

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