

Product Data Sheet

Product Name: Ammonium chloride

Cat. No.: GC63316

Chemical Properties

Cas. No. 12125-02-9

Formula ClH_4N M.Wt 53.49

Solubility DMSO : 50mg/mL; Water : 100mg/mL 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

Ammonium chloride, as a heteropolar compound with pH value regulation, can cause intracellular alkalization and metabolic acidosis thus effecting enzymatic activity and influencing the process of biological system. Ammonium chloride is an autophagy inhibitor[1][2].

Ammonium chloride (NH_4Cl), a lysosomotropic agent that raises intralysosomal pH, reduces the yield of reovirus during infection of mouse L cells[2].

Ammonium chloride (0.28 M in drinking water) promotes the survival of myocardial cells in vivo by

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

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decreasing contractile dysfunction, cardiac hypertrophy, inflammation, apoptosis and autophagy[1].

[1]. Huang X, et al. NH₄Cl treatment prevents doxorubicin-induced myocardial dysfunction in vivo. Life Sci. 2019;227:94-100. [2]. Canning WM, Fields BN. Ammonium chloride prevents lytic growth of reovirus and helps to establish persistent infection in mouse L cells. Science. 1983;219(4587):987-988.

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