Web: www.taiclone.com
Tel: +886-2-2735-9682
Email: order@taiclone.com

Cysteamine hydrochloride

Catalog No: tcsc2800

Available Sizes

Size: 5g

Specifications

CAS No:
156-57-0

Formula:
C_2H_8ClNS

Pathway:
Autophagy

Target:
Autophagy

Purity / Grade:
>98%

Solubility:
H2O : ≥ 50 mg/mL (440.10 mM); DMSO : 50 mg/mL (440.10 mM; Need ultrasonic)

Alternative Names:
β-Mercaptoethylamine Hydrochloride;2-Aminoethanethiol Hydrochloride;2-Mercaptoethylamine Hydrochloride;Thioethanolamine Hydrochloride

Observed Molecular Weight:
113.61

Product Description

Cysteamine Hydrochloride is an agent for the treatment of nephropathic cystinosis and an antioxidant.

Target: Others

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Cysteamine has been shown to increase intracellular glutathione levels in cystinotic cells, thus restoring the altered redox state of the cells. Also increased rates of apoptosis in cystinotic cells, which are thought to be the result of increased caspase 3 and protein kinase Cε activity, is counteracted by Cysteamine administration. Cysteamine has antioxidant properties as a result of increasing glutathione production. Cysteamine is an excellent scavenger of OH and HOCl; it also reacts with H2O2. Cysteamine increases the production of several heat shock proteins (HSP), including the murine Hsp40. Cysteamine exerts a dose-dependent effect on the doxorubicin-induced death of cancer cells, measured in both HeLa cells and B16 cells, whereas Cysteamine treatment alone had no influence on cell survival. In addition, in a doxorubicin-resistant breast cancer cell line, the addition of Cysteamine to doxorubicin results in a dramatic increase in cell death [1]. Cysteamine (100 μM) significantly is able to increase the intracellular GSH levels and the percentage of embryos that developed to the blastocyst stage of culture matured oocytes [2].