
Product Data Sheet

Product Name: Demeclocycline hydrochloride

Cat. No.: GC13212

Chemical Properties

Cas. No. 64-73-3

Chemical Name (4S,4aS,5aS,6S,12aS)-7-chloro-4-(dimethylamino)-3,6,10,12,12a-pentahydroxy-1,11-dioxo-1,4,4a,5,5a,6,11,12a-octahydrotetracene-2-carbimidic acid hydrochloride

SMILES CN([C@@]1([H])[C@]2([H])C[C@@]([C@@](O)([H])C3=C(Cl)C=CC(O)=C3C4=O)([H])C4=C(O)[C@]2(O)C(C(C(O)=N)=C1O)=O)C.Cl

Formula C₂₁H₂₂Cl₂N₂O₈

M.Wt 501.31

Solubility DMF: 1.4 mg/mL, DMSO: 1 mg/mL, PBS (pH 7.2): 3.3 mg/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**

Demeclocycline hydrochloride is a tetracycline antibiotic; is an antibiotic in the treatment of Lyme disease, acne, and bronchitis.

References:

- [1]. Cherrill DA, et al. Demeclocycline treatment in the syndrome of inappropriate antidiuretic hormone secretion. *Ann Intern Med.* 1975 Nov;83(5):654-6.
- [2]. Singer I, et al. Demeclocycline-induced nephrogenic diabetes insipidus. In-vivo and in-vitro studies. *Ann Intern Med.* 1973 Nov;79(5):679-83.
- [3]. Forrest JN Jr, et al. Superiority of demeclocycline over lithium in the treatment of chronic syndrome of inappropriate secretion of antidiuretic hormone. *N Engl J Med.* 1978

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

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