# Product Data Sheet

Product Name: Noratropine
Cat. No.: GC81848

## Chemical Properties

| | | | |
|---|---|---|---|
| Cas. No. | 16839-98-8 | | |
| Formula | $C_{16}H_{21}NO_3$ | M.Wt | 275.34 |
| Solubility | | Storage | Store at 4°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

Noratropine is a major metabolite of Atropine. Noratropine can be formed from Atropine via oxidative N-demethylation and can also be isolated from Anthocercis littorea. Atropine is a competitive muscarinic acetylcholine receptor ( mAChR ) antagonist. Atropine can be used in research on anti-myopia and bradycardia [1] [2] [3] [4].

References:

[1]. Evans WC, et al. Distribution of alkaloids in Anthocercis littorea and A. viscosa. Phytochemistry. 1973;12(10):2505-2507.

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

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[2]. Chen HX, et al. LC-MS for identification and elucidation of the structure of in-vivo and in-vitro metabolites of atropine. Chromatographia. 2007;65:413-418.
[3]. NADOR K, et al. N-Allyl-noratropine. J Med Pharm Chem. 1961 Jan 10;3:183-5.
[4]. Wang Z, et al. Indirect competitive enzyme-linked immunosorbent assay based on a broad-spectrum monoclonal antibody for tropane alkaloids detection in pig urine, pork and cereal flours. Food chemistry. 2021 Feb 01;337:127617.

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