
Product Data Sheet

Product Name: Roemerine

Cat. No.: GC63175

Chemical Properties

Cas. No. 548-08-3

Formula C₁₈H₁₇NO₂ M.Wt 279.33

Solubility Storage

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**

Remerin is an aporphine alkaloid that has been found in *N. nucifera* and has diverse biological activities.^{1,2,3,4} It selectively binds to the serotonin (5-HT) receptor subtype 5-HT_{2A} over 5-HT_{1A} and dopamine D₁ and D₂ receptors (K_is = 0.0621, 1.17, 1.4, and 22.6 μM, respectively).² Remerin is active against *C. albicans* as well as chloroquine-resistant and -sensitive strains of *P. falciparum* with IC₅₀ values of 4.5, 0.4, and 0.2 μg/ml, respectively.¹ It enhances cytotoxicity induced by vinblastine in multidrug-resistant KB-V1 oral epidermoid carcinoma cells.³ Remerin (20 mg/kg) improves survival in a mouse model of sepsis induced by methicillin-resistant *S. aureus* (MRSA).⁴

1. Agnihotri, V.K., ElSohly, H.N., Khan, S.I., et al. Constituents of *Nelumbo nucifera* leaves and their antimalarial and antifungal activity *Phytochem. Lett.* 1(2)89-93(2008)
 2. Munusamy, V., B.K., Y., Buckle, M.J.C., et al. Structure-based identification of aporphines with selective 5-HT_{2A} receptor-binding activity *Chem. Biol. Drug Des.* 81(2)250-256(2012)
 3. You, M., Wickramaratne, D.B.M., Silva, G.L., et al. (?) - Roemerine, an aporphine alkaloid from *Annona senegalensis* that reverses the multidrug-resistance phenotype with cultured cells *J. Nat. Prod.* 58(4)598-604(1995)
 4. Yin, S., Rao, G., Wang, J., et al. Roemerine improves the survival rate of septicemic BALB/c

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

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mice by increasing the cell membrane permeability of Staphylococcus aureus PLoS
One 10(11):e0143863 (2015)

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