

Product Data Sheet

Product Name: 9-Methoxyellipticine

Cat. No.: GC48840

Chemical Properties

Cas. No. 10371-86-5

SMILES COC1=CC=C2C(C(C(C)=C3C(C=CN=C3)=C4C)=C4N2)=C1

Formula C₁₈H₁₆N₂O

M.Wt 276.3

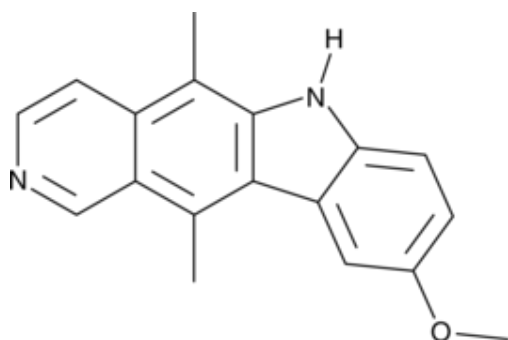
Solubility

Storage -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

9-Methoxyellipticine is an alkaloid and a derivative of the DNA intercalating agent ellipticine that has been found in *O. maculata* and has anticancer activity.^{1,2} It intercalates into DNA and is an inhibitor of wild-type c-Kit and c-Kit containing the D816V activating mutation (c-Kit^{D816V}; IC₅₀s = 0.8 and 0.6 μM, respectively).^{2,3} 9-Methoxyellipticine inhibits proliferation of Ba/F3 cells in the presence of the c-Kit ligand SCF and Ba/F3 cells expressing c-Kit^{D816V} (IC₅₀s = 0.5 and 0.3 μM, respectively).² It also increases survival in a variety of rodent tumor models.¹

1. Svoboda, G.H., Poore, G.A., and Montfort, M.L. Alkaloids of *Ochrosia maculata* Jacq. (*Ochrosia borbonica* Gmel.). Isolation of the alkaloids and study of the antitumor properties of 9-

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

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methoxyellipticineJ. Pharm. Sci.57(10)1720-1725(1968) 2.VendOme, J., Letard, S., Martin, F., et al.Molecular modeling of wild-type and D816V c-Kit inhibition based on ATP-competitive binding of ellipticine derivatives to tyrosine kinasesJ. Med. Chem.48(20)6194-6201(2005) 3.Festy, B., Poisson, J., and Paoletti, C.A new DNA intercalating drug: Methoxy-9-ellipticineFEBS Lett.17(2)321-323(1971)

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