

Product Data Sheet

Product Name: Pyropheophorbide a methyl ester

Cat. No.: GC49860

Chemical Properties

Cas. No. 6453-67-4

SMILES O=C1CC(C2=C1C(C)=C(C=C3C(CC)=C(C)C(C=C4C(C=C)=C(C)C(N4)=C5)=N3)N2)=C6[C@@H](CCC(OC)=O)[C@H](C)C5=N6

Formula C34H36N4O3 M.Wt 548.7

Solubility Chloroform: slightly soluble, Methanol: slightly soluble when heated 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

Pyropheophorbide a methyl ester is a photosensitizer and a derivative of chlorophyll a.¹ It induces cell death in RIF-1 cells when used in combination with photodynamic therapy (PDT) at concentrations of 0.06 and 1 µM. Pyropheophorbide a methyl ester localizes to cell membranes and

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

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induces IL-1 receptor internalization and NF- κ B activation following light exposure in HCT116 cells.²

1.Chen, Y., Zheng, X., Dobhal, M.P., et al.Methyl pyropheophorbide-a analogues: Potential fluorescent probes for the peripheral-type benzodiazepine receptor. Effect of central metal in photosensitizing efficacyJ. Med. Chem.48(11)3692-3695(2005) 2.Matroule, J.-Y., Bonizzi, G., MorliÈre, P., et al.Pyropheophorbide-a methyl ester-mediated photosensitization activates transcription factor NF- κ B through the interleukin-1 receptor-dependent signaling pathwayJ. Biol. Chem.274(5)2988-3000(1999)

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