
Product Data Sheet

Product Name: 13-Methylberberine (chloride)

Cat. No.: GC18237

Chemical Properties

Cas. No. 54260-72-9

Chemical Name 5,6-dihydro-9,10-dimethoxy-13-methyl-benzo[g]-1,3-benzodioxolo[5,6-a]quinolizinium, monochloride

SMILES COC1=CC=C2C(C)=C3[N+](CCC4=C3C=C5C(OCOC5)=C4)=CC2=C1OC.[Cl-]

Formula $C_{21}H_{20}NO_4.Cl$ M.Wt 385.8

Solubility Water: 1 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

13-Methylberberine (13-MB) (chloride) is a 13-methyl-substituted derivative of berberine. Berberine is a widely distributed berberidacean alkaloid found in plant tissues that has antibacterial, anti-inflammatory, antitumor, anti-obesity, and hypercholesterolemic activity. 13-MB has improved antibacterial activity against *S. aureus* (MIC = 125 ug/ml) and improved antitumor activity with a mean GI50 value of 11.7 uM, as compared to berberine. 13-MB also induces down-regulation of adipocyte differentiation transcription factors, reduces de novo lipid synthesis, and accumulates in murine 3T3-L1 adipocytes at higher levels than berberine, suggesting improved anti-obesity activity.

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

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