
Product Data Sheet

Product Name: Ilimaquinone

Cat. No.: GC18545

Chemical Properties

Cas. No. 71678-03-0

Chemical Name 3-[[[(1R,2S,4aS,8aS)-decahydro-1,2,4a-trimethyl-5-methylene-1-naphthalenyl]methyl]-2-hydroxy-5-methoxy-2,5-cyclohexadiene-1,4-dione

SMILES C=C1[C@@]2(C)CC[C@H](C)[C@](CC3=C(O)C(C=C(OC)C3=O)=O)(C)[C@]2([H])CCC1Formula C₂₂H₃₀O₄

M.Wt 358.5

Solubility DMSO : 25 mg/mL (69.74 mM; Need ultrasonic and warming)

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**

Ilimaquinone is a natural sesquiterpene quinone that has antimicrobial, anti-HIV, anti-mitotic, and anti-inflammatory properties. In mammalian cells, 25 uM ilimaquinone reversibly induces vesiculation of Golgi membranes, blocking the secretory pathway. It inhibits the conversion of S-adenosylhomocysteine (SAH) to homocysteine by SAH hydrolase (IC₅₀ = 40 uM). Ilimaquinone also inhibits DNA polymerase β and dual specificity phosphatase Cdc25B (IC₅₀ = 45.2 and 92 uM, respectively) and, at 10 uM, activates gene expression through hypoxia-inducible factor-1.

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

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA
