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**Product Data Sheet**

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Product Name: Psoromic Acid

Cat. No.: GC18547

**Chemical Properties**

Cas. No. 7299-11-8

Chemical Name 4-formyl-3-hydroxy-8-methoxy-1,9-dimethyl-11-oxo-11H-dibenzo[b,e][1,4]dioxepin-6-carboxylic acid

SMILES CC1=C(OC)C=C(C(O)=O)C(OC2=C3C(C)=CC(O)=C2C=O)=C1OC3=OFormula C<sub>18</sub>H<sub>14</sub>O<sub>8</sub>

M.Wt 358.3

Solubility DMSO: Soluble, Ethanol: Soluble

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**

Psoromic acid is an inhibitor of Rab geranylgeranyl transferase (IC<sub>50</sub> = 1.3 μM) and P. falciparum fatty acid synthesis (FAS) II. It shows cytotoxic effects on primary rat cerebral cortex and human cancer U87MG cell lines in vitro (IC<sub>50</sub>s = 79.40 and 56.22 mg/L, respectively). It also is cytotoxic against human KB cancer cells (IC<sub>50</sub> = 31.6 μM). It shows moderate activity against liver stage P. berghei (IC<sub>50</sub> = 31.6 μM) and drug-resistant blood stage P. falciparum (IC<sub>50</sub> = 29.2 μM). The maximum tolerated dose in zebrafish larvae is 15.5 μM.

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

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