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## Product Data Sheet

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Product Name: Protohypericin  
Cat. No.: GC39064

### Chemical Properties

Cas. No. 548-03-8

SMILES O=C(C1=C(O)C=C(C)C=C1C2=C34)C3=C(O)C=C(O)C4=C5C(O)=CC(O)=C6C(C7=C(O)C=C(C)C=C7C2=C65)=O

Formula C<sub>30</sub>H<sub>18</sub>O<sub>8</sub> M.Wt 506.46

Solubility Soluble in DMSO Storage Store at -20°C

General 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

Protohypericin is a naturally occurring naphthodianthrone derived from plant *Hypericum perforatum*. Radioiodinated protohypericin is used in Tumor necrosis targeted radiotherapy[1][2].

[1]. Baugh SF. Simultaneous determination of protopseudohypericin, pseudohypericin, protohypericin, and hypericin without light exposure. *J AOAC Int.* 2005 Nov-Dec;88(6):1607-12. [2]. Liu X, et al. Tumor necrosis targeted radiotherapy of non-small cell lung cancer using radioiodinated protohypericin in a mouse model. *Oncotarget.* 2015 Sep 22;6(28):26400-10.

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

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