

Certificate of Analysis

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Product Name: Demethylasterriquinone B1

Catalog No.: 1819 Batch No.: 3

CAS Number: IUPAC Name: 78860-34-1

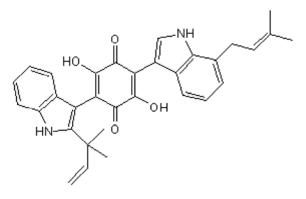
lame: 2-[2-(1,1-Dimethyl-2-propenyl)-1*H*-indol-3-yl]-3,6-dihydroxy-5-[7-(3-methyl-2-butenyl)-1*H*-indol-3-yl] -2,5-cyclohexadiene-1,4-dione

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: Batch Molecular Weight: Physical Appearance: Solubility: Storage:

C₃₂H₃₀N₂O₄ 506.59 Black solid DMSO to 100 mM Desiccate at -20°C





2. ANALYTICAL DATA

HPLC: ¹H NMR: Mass Spectrum: Shows 97.2% purity Consistent with structure Consistent with structure

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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Description:

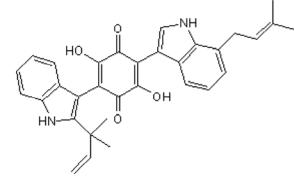
Demethylasterriquinone B1 is a selective insulin receptor (IR) activator (EC₅₀ values are 3 - 6 μ M for IRTK and 100 μ M for IGF1R and EGFR). Increases IR β subunit tyrosine phosphorylation and activation of PI 3-kinase and Akt, but not ERK. Induces glucose uptake in adipocytes and skeletal muscle in vitro, without enhancing vascular proliferation. Binds GAPDH. Also activates Trk by interacting at a site distinct from the neurotrophin-binding site.

Physical and Chemical Properties:

Batch Molecular Formula: C₃₂H₃₀N₂O₄ Batch Molecular Weight: 506.59 Physical Appearance: Black solid

Minimum Purity: ≥95%

Batch Molecular Structure:



Storage: Desiccate at -20°C

Solubility & Usage Info:

DMSO to 100 mM

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

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Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References:

Kim et al (2007) Glyceraldehyde 3-phosphate dehydrogenase is a cellular target of the Ins mimic demethylasterriquinone B1. J.Med.Chem. 50 3423. PMID: 17595071.

Webster *et al* (2003) Signaling effects of demethylasterriquinone B1, a selective Ins receptor modulator. Chembiochem **4** 379. PMID: 12740809.

Salituro et al (2001) Discovery of a small molecule Ins receptor activator. Recent Prog.Horm.Res. 56 107. PMID: 11237209.

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