Product Name: Demethylerriquinone B1  
Catalog No.: 1819  
Batch No.: 3  
CAS Number: 78860-34-1  
IUPAC Name: 2-[(2,11-Dimethyl-2-propenyl)-1H-indol-3-yl]-3,6-dihydroxy-5-[(3-methyl-2-butenyl)-1H-indol-3-yl]-2,5-cyclohexadiene-1,4-dione

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: \( \text{C}_{32}\text{H}_{30}\text{N}_{2}\text{O}_{4} \)
Batch Molecular Weight: 506.59
Physical Appearance: Black solid
Solubility: DMSO to 100 mM
Storage: Desiccate at -20°C

2. ANALYTICAL DATA

HPLC: Shows 98.1% purity
\(^1\)H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Product Name: Demethylasterriquinone B1
CAS Number: 78860-34-1
IUPAC Name: 2-[(2,1-Dimethyl-2-propenyl)-1H-indol-3-yl]-3,6-dihydroxy-5-[(3-methyl-2-butenyl)-1H-indol-3-yl]-2,5-cyclohexadiene-1,4-dione

Description:
Selective insulin receptor (IR) activator (EC_{50} values are 3 - 6 μM for IRTK and 100 μM 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: C_{32}H_{30}N_{2}O_{4}
Batch Molecular Weight: 506.59
Physical Appearance: Black solid
Minimum Purity: >98%

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).

References: