Arteannuin B  
*Item No. 33852*

**CAS Registry No.:** 50906-56-4  
**Formal Name:** (3R,3aS,5aR,6aR,6bR,9aS)-decahydro-3,5a-dimethyl-9-methylene-8H-oxireno[7,8]naphtho[8a,1-b]furan-8-one  
**MF:** C$_{15}$H$_{20}$O$_3$  
**FW:** 248.3  
**Purity:** ≥98%  
**Supplied as:** A solid  
**Storage:** -20°C  
**Stability:** ≥2 years  
**Item Origin:** Plant/Artemisia carvifolia Buch.-Ham. ex Roxb. Hort. Beng

Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

### Laboratory Procedures

Arteannuin B is supplied as a solid. A stock solution may be made by dissolving the arteannuin B in the solvent of choice, which should be purged with an inert gas. Arteannuin B is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF). The solubility of arteannuin B in ethanol and DMSO is approximately 25 mg/ml and approximately 30 mg/ml in DMF.

### Description

Arteannuin B is a precursor in the biosynthesis of the antimalarial artemisinin (Item No. 11816) that has been found in *A. annua* and has diverse biological activities.$^{1-3}$ It is active against a variety of bacteria and fungi, as well as plant pathogenic bacteria and fungi, in disk assays.$^1$ Arteannuin B reduces viral RNA levels in Vero E6 cells infected with severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2; EC$_{50} = 10.28$ µM), acting at a post-entry step in the infection process.$^2$ It is also cytotoxic to Ehrlich ascites tumor cells (IC$_{50} = 47$ µM).$^3$

### References