PRODUCT INFORMATION

AA-861
Item No. 13263

CAS Registry No.: 80809-81-0
Formal Name: 2-(12-hydroxy-5,10-dodecadiyn-1-yl)-3,5,6-trimethyl-2,5-cyclohexadiene-1,4-dione
Synonyms: A-61589, Docebenone
MF: C_{21}H_{26}O_{3}
FW: 326.4
Purity: ≥98%
Supplied as: A solid
Storage: -20°C
Stability: ≥2 years

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

Laboratory Procedures

AA-861 is supplied as a solid. A stock solution may be made by dissolving the AA-861 in the solvent of choice, which should be purged with an inert gas. AA-861 is soluble in the organic solvent DMSO (sonicated) at a concentration of approximately 250 mg/ml.

Description

AA-861 is an inhibitor of 5-lipoxygenase (5-LO; IC_{50} = 0.8 µM).^{1} It is greater than 100-fold selective for 5-LO over 12-LO and cyclooxygenase (COX). AA-861 inhibits the production of 5-HETE and leukotriene B_{4} (LTB_{4}; Item Nos. 20110 | 10007240) induced by A23187 (Item No. 22030) with IC_{50} values of 0.03 and 0.08 µM, respectively, in isolated rat peritoneal macrophages.^{2} It reduces paw edema, pleurisy, and cell infiltration induced by carrageenan in rats when administered at a dose of 80 mg/kg. AA-861 (20 mg/kg) reduces ovalbumin-induced bronchoconstriction in an ovalbumin-sensitized guinea pig model of experimental allergic asthma.

References