CAY10486

Item No. 10006452

CAS Registry No.: 615264-52-3
Formal Name: N-[3-(4-hydroxyphenyl)-1-oxo-2-propenyl]-L-phenylalanine, methyl ester
Synonym: 4-Hydroxycinnamic acid (L-phenylalanine methyl ester) amide
MF: C_{19}H_{19}NO_{4}
FW: 325.4
Purity: ≥98%
Stability: ≥2 years at -20°C
Supplied as: A crystalline solid
UV/Vis: \( \lambda_{\text{max}} \): 210, 226, 311 nm

Laboratory Procedures

For long term storage, we suggest that CAY10486 be stored as supplied at -20°C. It should be stable for at least two years.

CAY10486 is supplied as a crystalline solid. A stock solution may be made by dissolving the CAY10486 in an organic solvent purged with an inert gas. CAY10486 is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide. The solubility of CAY10486 in these solvents is approximately 20 mg/ml.

CAY10486 is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, CAY10486 should first be dissolved in DMSO and then diluted with the aqueous buffer of choice. CAY10486 has a solubility of approximately 0.5 mg/ml in a 1:5 solution of DMSO:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Acyl-Coenzyme A: cholesterol acyltransferase-1 and -2 (ACAT-1 and ACAT-2) catalyze the formation of cholesterol esters from cholesterol and long chain fatty acyl-coenzyme A, and may play a role in the development of atherosclerosis.\(^1\)\(^2\) CAY10486 inhibits human ACAT-1 and ACAT-2 equally with an IC\(_{50}\) of approximately 60 \(\mu\)M.\(^3\) It also inhibits copper-mediated oxidation of low density lipoproteins by about 28% at a concentration of 3 \(\mu\)M.\(^3\)

References


Related Products

For a list of related products please visit: www.caymanchem.com/catalog/10006452