CAY10487
Item No. 10006480

CAS Registry No.: 778624-05-8
Synonym: 3,4-Dihydrocinnamic Acid (L-alanine methyl ester) amide
Formal Name: N-[(2E)-3-(3,4-dihydroxyphenyl)-1-oxo-2-propenyl]-L-alanine, methyl ester
MF: C13H15NO5
FW: 265.3
Purity: ≥98%
Stability: ≥2 years at -20°C
Supplied as: A crystalline solid
UV/Vis.: \( \lambda_{\text{max}}: \) 220, 242, 297, 325 nm

Laboratory Procedures

For long term storage, we suggest that CAY10487 be stored as supplied at -20°C. It should be stable for at least two years.

CAY10487 is supplied as a crystalline solid. A stock solution may be made by dissolving the CAY10487 in an organic solvent purged with an inert gas. CAY10487 is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide. The solubility of CAY10487 in these solvents is at least 30 mg/ml.

CAY10487 is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, CAY10487 should first be dissolved in ethanol and then diluted with the aqueous buffer of choice. CAY10487 has a solubility of 0.35 mg/ml in a 1:5 solution of ethanol:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

The early stage of atherosclerosis is characterized by the aggregation of foam cells, so called a fatty streak, in the inner arterial wall. CAY10487 inhibits formation of fatty streak lesions of the thoracic aorta in high cholesterol-fed rabbits without affecting plasma lipid profiles or significantly inhibiting ACAT-1 or ACAT-2 activity.1,2 The percent area occupied by the atherosclerotic lesion in rabbits supplemented with 0.05% CAY10487 in the diet was 16.1% compared to 53.5% in control rabbits.1 CAY10487 also exhibits antioxidant activity, inhibiting copper-mediated oxidation of low-density lipoprotein by about 75% at a concentration of 2 \( \mu \text{M}. \)2

References

Related Products
For a list of related products please visit: www.caymanchem.com/catalog/10006480

WARNING: THIS PRODUCT IS FOR LABORATORY RESEARCH ONLY: NOT FOR ADMINISTRATION TO HUMANS. NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

MATERIAL SAFETY DATA
This material should be considered hazardous until information to the contrary becomes available. Do not ingest, swallow, or inhale. Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling. This information contains some, but not all, of the information required for the safe and proper use of this material. Before use, the user must review the complete Material Safety Data Sheet, which has been sent via email to your institution.

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Cayman Chemical Company makes no warranty or guarantee of any kind, whether written or oral, expressed or implied, including without limitation, any warranty of fitness for a particular purpose, suitability and merchantability, which extends beyond the description of the chemicals hereof. Cayman warrants only to the original customer that the material will meet our specifications at the time of delivery. Cayman will carry out its delivery obligations with due care and skill. Thus, in no event will Cayman have any obligation or liability, whether in tort (including negligence) or in contract, for any direct, indirect, incidental or consequential damages, even if Cayman is informed about their possible existence.

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Buyer’s exclusive remedy and Cayman’s sole liability hereunder shall be limited to a refund of the purchase price, or at Cayman’s option, the replacement, at no cost to Buyer, of all material that does not meet our specifications.

Said refund or replacement is conditioned on Buyer giving written notice to Cayman within thirty (30) days after arrival of the material at its destination. Failure of Buyer to give said notice within thirty (30) days shall constitute a waiver by Buyer of all claims hereunder with respect to said material.

For further details, please refer to our Warranty and Limitation of Remedy located on our website and in our catalog.

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