Product Data Sheet

Product Name: α-CEHC
Cat. No.: GC11123

Chemical Properties

Cas. No.	4072-32-6		
SMILES	CC1=C(OC(CCC(O)=O)(C)CC2)C2=C(C)C(O)=C1C		
Formula	$C_{16}H_{22}O_4$	M.Wt	278.3
Solubility	DMF: 20 mg/ml,DMSO: 20 mg/ml,DMSO:PBS (pH 7.2)(1:1): .25 mg/ml,Ethanol: 10 mg/ml	Storage	Store at -20°C
General tips	For obtaining a higher solubility , please warm the tube at 37 ℃ and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20℃ for several months.		
Shipping Condition	Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.		
Structure	α-CEHC		

Background

Molecules having vitamin E antioxidant activity include four tocopherols (α, β, δ, and γ) and four tocotrienols (α, β, δ, and γ). α-Tocopherol is the major lipid soluble antioxidant in vivo and protects against lipid peroxidation. α-CEHC is the major urinary metabolite of α-tocopherol following vitamin E supplementation. The concentration of α-CEHC in human serum is in the range of 5-10 pmol/ml but increases significantly up to 200 pmol/ml upon supplementation with RRR-α-tocopherol. About one-third of the α-CEHC circulating in the blood is present as a glucuronide conjugate. α-CEHC was only excreted when a threshold concentration of 7-9 μmol α-tocopherol/g total lipid in plasma was exceeded. Therefore, excretion of α-CEHC may be considered to be a marker of optimum vitamin E intake.

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