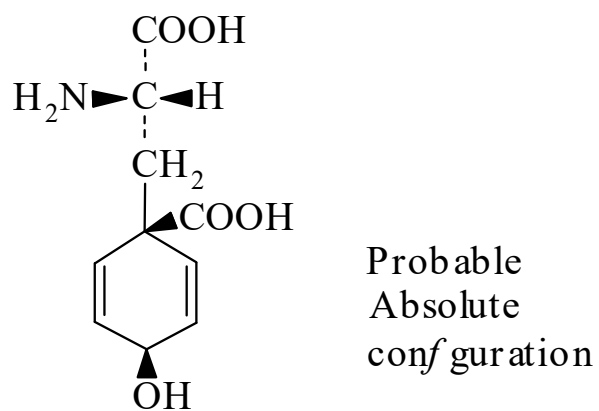




>>Entry Name: Arogenic acid

Synonym(s):  $\alpha$ -Amino-1-carboxy-4-hydroxy-2,5-cyclohexadiene-1-propanoic acid, 9Cl. Pretyrosine



CAS Registry Number: 53078-86-7

Molecular Formula:  $C_{10}H_{13}NO_5$

Molecular Weight: 227.216

Accurate Mass: 227.079374

Percentage Composition: C 52.86%; H 5.77%; N 6.16%; O 35.21%

Biological Source: Isol. from *Neurospora crassa* and *Pseudomonas aureofaciens*

Physical Description: Precursor of Tyrosine in prokaryotes

Other Data: cd  $\lambda_{\max}$  <230 nm,  $[\Theta]$  + 46,000 (as anion in  $H_2O$ ). Isol. as disodium or diammonium salt

References:

- Stenmark, S.L. *et al.*, *Nature (London)*, 1974, **247**, 290  
Zamir, L.O. *et al.*, *J.A.C.S.*, 1980, **102**, 4499, (*uv, pmr, cmr, ms*)  
Danishefsky, S. *et al.*, *J.A.C.S.*, 1981, **103**, 1602, (*synth*)  
Zamir, L.O. *et al.*, *Bioorg. Chem.*, 1982, **11**, 32, (*biosynth*)  
Lingens, F. *et al.*, *J. Gen. Microbiol.*, 1982, **128**, 1199  
Lingens, F. *et al.*, *Naturwissenschaften*, 1983, **70**, 115, (*isol*)  
Crossley, M.J. *et al.*, *Chem. Comm.*, 1994, 2237, (*synth*)