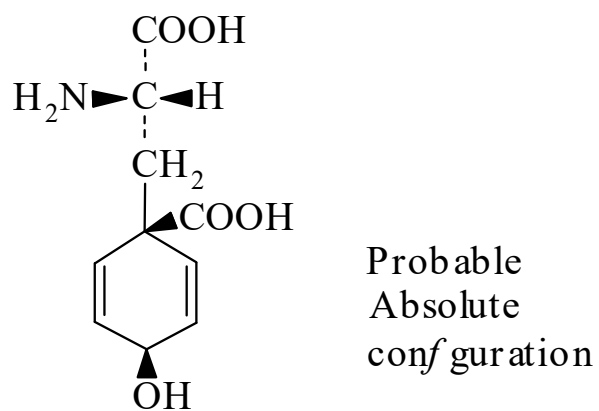




>>Entry Name: Arogenic acid

Synonym(s): α -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*)