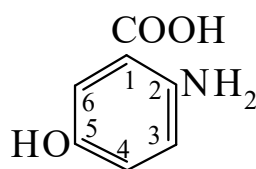




>>Entry Name: 2-Amino-5-hydroxybenzoic acid

Synonym(s): 5-Hydroxyanthranilic acid. Diabeton (S) active substance



CAS Registry Number: 394-31-0

Molecular Formula: $C_7H_7NO_3$

Molecular Weight: 153.137

Accurate Mass: 153.042594

Percentage Composition: C 54.90%; H 4.61%; N 9.15%; O 31.34%

Biological Source: Metab. of Tryptophan in rats

Use/Importance: Oral hypoglycaemic agent

Physical Description: Violet cryst. (H_2O)

Melting Point: Mp 252 dec.°

pKa Value: pK_{a1} 2.72; pK_{a2} 5.37 (25°, 0.1M KCl)

Calculated Log P Data: Log P 0.66 (calc)

Aldrich: 27899-8

Fluka: 8100

>>Derivative: Me ester

CAS Registry Number: 1882-72-0

Molecular Formula: $C_8H_9NO_3$

Molecular Weight: 167.164

Accurate Mass: 167.058244

Percentage Composition: C 57.48%; H 5.43%; N 8.38%; O 28.71%

Physical Description: Yellow needles

Melting Point: Mp 158°

>>Derivative: Et ester

Molecular Formula: $C_9H_{11}NO_3$

Molecular Weight: 181.191

Accurate Mass: 181.073894

Percentage Composition: C 59.66%; H 6.12%; N 7.73%; O 26.49%

Physical Description: Cryst. (EtOH)

Melting Point: Mp 140°

>>Derivative: 8-Methylnonyl ester

Synonym(s): Isodecyl 5-hydroxyanthranilate. Antibiotic BU 4601A. BU 4601A

CAS Registry Number: 148915-76-8

Molecular Formula: $C_{17}H_{27}NO_3$

Molecular Weight: 293.405

Accurate Mass: 293.199094

Percentage Composition: C 69.59%; H 9.27%; N 4.77%; O 16.36%

Biological Source: Prod. by a *Streptomyces* sp.

Use/Importance: 5-Lipoxygenase inhibitor

Physical Description: Powder

Solubility: BERDY SOL: Sol. MeOH, CCl_4 , EtOH, DMSO, EtOAc; fairly sol. hexane; poorly sol. H_2O

UV: [acid] λ_{max} 212 (ϵ 29200); 234 (ϵ 9100); 300 (ϵ 3800) (MeOH/HCl) (Derep) [base] λ_{max} 208 (ϵ 33800); 225 (ϵ 24600); 372 (ϵ 4600) (MeOH/NaOH) (Derep)

[neutral] λ_{max} 219 (ϵ 24600); 246 (sh) (ϵ); 360 (ϵ 5200) (MeOH) (Derep) [neutral] λ_{max} 220 (ϵ 28200); 360 (ϵ 5800) (MeOH) (Berdy) [acid] λ_{max} 211 (ϵ 30900); 300 (ϵ 4400) (MeOH-HCl) (Berdy) [base] λ_{max} 208 (ϵ 34200); 225 (ϵ 24200); 372 (ϵ 4500) (MeOH-NAOH) (Berdy)