



Accurate Mass: 315.074289
Percentage Composition: C 60.95%; H 4.16%; N 4.44%; O 30.45%
Biological Source: Isol. from the grains of *Avena sativa*

>>**Derivative:** *N*-(3,4-Dihydroxycinnamoyl)(*Z*-)

CAS Registry Number: 116764-22-8

Molecular Formula: C₁₆H₁₃NO₆
Molecular Weight: 315.282
Accurate Mass: 315.074289
Percentage Composition: C 60.95%; H 4.16%; N 4.44%; O 30.45%
Biological Source: Isol. from *Avena sativa*

>>**Derivative:** *N*-(4-Hydroxy-3-methoxycinnamoyl)(*E*-)

Synonym(s): *N*-Feruloyl-5-hydroxyanthranilic acid. **Avenanthramide B.** Avenanthramide 1

CAS Registry Number: 108605-69-2

Molecular Formula: C₁₇H₁₅NO₆
Molecular Weight: 329.309
Accurate Mass: 329.089939
Percentage Composition: C 62.00%; H 4.59%; N 4.25%; O 29.15%
Biological Source: Isol. from the grains of *Avena sativa*
Physical Description: Long pale yellow needles (Me₂CO aq.)
Melting Point: Mp 246°
Solubility: BERDY SOL: Sol. EtOAc, Et₂O, H₂O-Me₂CO; poorly sol. CHCl₃, C₆H₆, H₂O
UV: [base] λ_{max} 228 (); 315 (); 361 (); 392 () (MeOH-NAOH) (Berdy)

>>**Derivative:** *N*-(4-Hydroxy-3-methoxycinnamoyl)(*Z*-)

CAS Registry Number: 116764-21-7

Molecular Formula: C₁₇H₁₅NO₆
Molecular Weight: 329.309
Accurate Mass: 329.089939
Percentage Composition: C 62.00%; H 4.59%; N 4.25%; O 29.15%
Biological Source: Isol. from *Avena sativa*

>>**Derivative:** Me ether

Synonym(s): 2-Amino-5-methoxybenzoic acid. 5-Methoxyanthranilic acid

CAS Registry Number: 6705-03-9
Molecular Formula: C₈H₉NO₃
Molecular Weight: 167.164
Accurate Mass: 167.058244
Percentage Composition: C 57.48%; H 5.43%; N 8.38%; O 28.71%
Physical Description: Needles (H₂O)
Melting Point: Mp 179-180° (155-156° dec.)
pKa Value: pK_{a1} 2.37; pK_{a2} 5.57 (25°, 0.1M KCl)

>>**Derivative:** Et ether

Synonym(s): 2-Amino-5-ethoxybenzoic acid

Molecular Formula: C₉H₁₁NO₃
Molecular Weight: 181.191
Accurate Mass: 181.073894
Percentage Composition: C 59.66%; H 6.12%; N 7.73%; O 26.49%
Physical Description: Yellowish solid
Melting Point: Mp 179-180°

References: