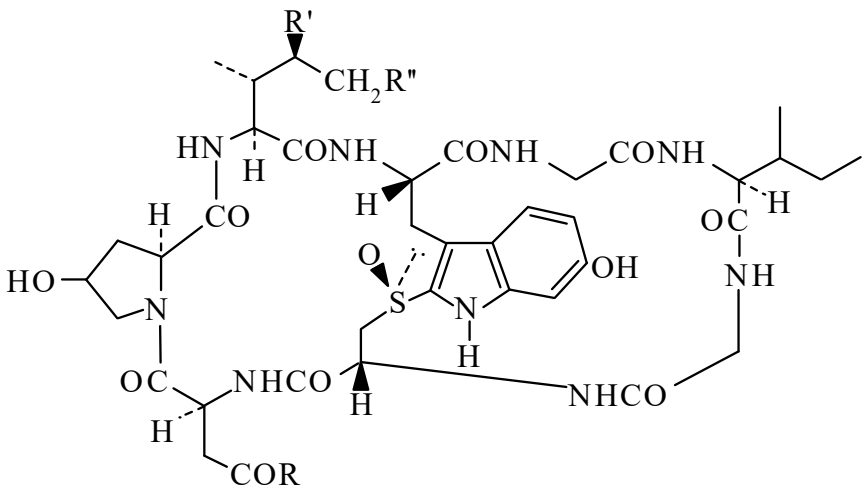
>>**Entry Name: Amanitin**
Synonym(s): Amantin. Amatoxin



α-Amanitin, R = NH_2, R' = R" = OH
b-Amanitin, R = R' = R" = OH
g-Amanitin, R = NH_2, R' = OH, R" = H
e-Amanitin, R = R' = OH, R" = H
Amanullin, R = NH_2, R' = R" = H
Amanullinic acid, R = OH, R' = R" = H

Related CAS Registry Numbers(s): 11030-71-0

>>**Variant:** α**-Amanitin**

CAS Registry Number: 23109-05-9

Molecular Formula: $C_{39}H_{54}N_{10}O_{14}S$
Molecular Weight: 918.98
Accurate Mass: 918.35417
Percentage Composition: C 50.97%; H 5.92%; N 15.24%; O 24.37%; S 3.49%
Biological Source: Toxic constit. of *Amanita phalloides*. Also from *Amanita verna, Amanita bisporigera, Galerina autumnalis, Galerina marginata* and *Galerina venenata*
Physical Description: Needles
Melting Point: Mp 254-255 dec.°
Optical Rotation: $[\alpha]_D^{20}$+191 (H_2O)
Solubility: BERDY SOL: Sol. MeOH, H_2O
UV: [neutral] λ_{max} 302 () (MeOH) (Berdy)
Hazard & Toxicity: Systemic effects in humans by ingestion. Can cause hepatic necrosis, liver failure and death if untreated. Nephrotoxic. LD_{50} (mus, ipr) 0.1 mg/kg. Some human and exp. toxic effects are delayed (2-8 d after administration) *cf.* phallotoxins. Gastrointestinal effects occur 2-4 h after ingestion ; BERDY HAZD : LD_{50} (mus, ipr) .1 mg/kg

Fluka: 6422
Sigma: A2263

>>**Variant:** β**-Amanitin**
Synonym(s): 1-L-Aspartic acid-α-amanitin, 9CI

CAS Registry Number: 21150-22-1

Molecular Formula: $C_{39}H_{53}N_9O_{15}S$
Molecular Weight: 919.965
Accurate Mass: 919.338186
Percentage Composition: C 50.92%; H 5.81%; N 13.70%; O 26.09%; S 3.49%
Biological Source: Toxic constit. of several spp. of *Amanita*, notably *Amanita phalloides* and also found in *Galerina autumnalis, Galerina venenata, Galerina marginata* and *Amanita bisporigera*
Physical Description: Cryst. (EtOH)
Melting Point: Mp 300°
Solubility: Sol. H_2O, EtOH; BERDY SOL: Sol. MeOH, H_2O
UV: [neutral] λ_{max} 302 () (MeOH) (Berdy)
Hazard & Toxicity: LD_{50} (mus, ipr) 0.4 mg/kg ; BERDY HAZD : LD_{50} (mus, ipr) .4 mg/kg

Sigma: A9641