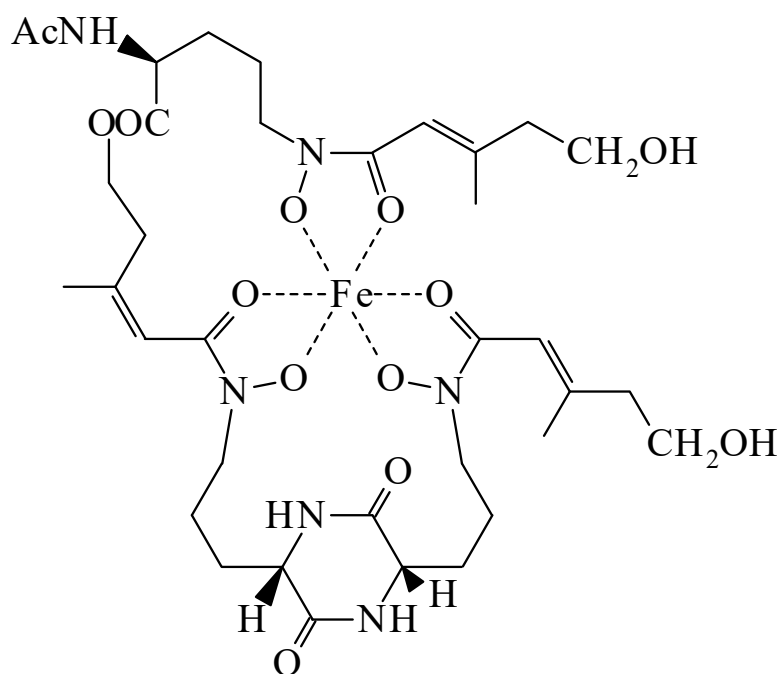




>>Entry Name: Coprogen



CAS Registry Number: 31418-71-0

Related CAS Registry Number(s): 1391-13-5 30315-65-2 81559-20-8

Molecular Formula: C₃₅H₅₃FeN₆O₁₃

Molecular Weight: 821.683

Accurate Mass: 821.302003

Percentage Composition: C 51.16%; H 6.50%; Fe 6.80%; N 10.23%; O 25.31%

Biological Source: Isol. from bacteria and fungi incl. *Neurospora crassa* and *Penicillium* spp.

Use/Importance: Siderophore. Microbiol. iron transport compd. Growth factor for coprophilic fungi. Phytotoxin

Physical Description: Red cryst. (EtOH)

Melting Point: Mp 205 dec.°

Solubility: BERDY SOL: Sol. H₂O, MeOH

UV: [neutral] λ_{max} 435 (ε 2809) (MeOH) (Berdy) [neutral] λ_{max} 217 (ε 28840); 250 (ε 16600); 434 (ε 2820); 440 (ε 2951) (H₂O) (Berdy) [neutral] λ_{max} 213 (); 254 (); 450 () (EtOH aq.) (Berdy)

>>Derivative: N-De-Ac

Synonym(s): Coprogen B

CAS Registry Number: 12705-44-1

Molecular Formula: C₃₃H₅₁FeN₆O₁₂

Molecular Weight: 779.646

Accurate Mass: 779.291438

Percentage Composition: C 50.84%; H 6.59%; Fe 7.16%; N 10.78%; O 24.63%

Biological Source: From *Fusarium* spp., *Neurospora crassa* and other fungi

Use/Importance: Siderophore

Solubility: BERDY SOL: Sol. H₂O, MeOH

UV: [neutral] λ_{max} 220 (); 250 (); 440 (ε 2754) (H₂O) (Berdy)

References:

- Hesseltine, C.W. *et al.*, *J.A.C.S.*, 1952, **74**, 1362, (*isol*)
Pidacks, C. *et al.*, *J.A.C.S.*, 1953, **75**, 6064, (*spectra*)
Fr. Pat., 1964, 1 355 923; *CA*, **62**, 5856, (*synth*)
Diekmann, H., *Arch. Microbiol.*, 1970, **73**, 65, (*Coprogen B*)
Keller-Schierlein, W. *et al.*, *Helv. Chim. Acta*, 1970, **53**, 2035, (*isol, struct*)
Dell, A. *et al.*, *Biomed. Mass Spectrom.*, 1982, **9**, 158, (*ms*)
Wong, G.B. *et al.*, *J.A.C.S.*, 1983, **105**, 810, (*isol, cd, config*)
Matzanke, B.F. *et al.*, *Eur. J. Biochem.*, 1987, **162**, 643
Ohra, J. *et al.*, *Biosci., Biotechnol., Biochem.*, 1995, **59**, 1782, (*isol*)