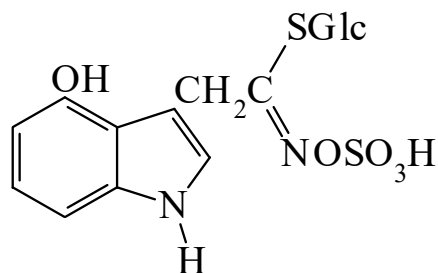




>>Entry Name: 4-Hydroxyindol-3-ylmethyl glucosinolate

Synonym(s): 1-Thio- β -D-glucopyranose 1-[4-hydroxy-*N*-(sulfooxy)-1*H*-indole-3-ethanimidate], 9Cl. 4-Hydroxyglucobrassicin



CAS Registry Number: 83327-20-2

Related CAS Registry Numbers(s): 87592-99-2 87593-00-8 96828-26-1 96828-27-2

Molecular Formula: C₁₆H₂₀N₂O₁₀S₂

Molecular Weight: 464.473

Accurate Mass: 464.055938

Percentage Composition: C 41.38%; H 4.34%; N 6.03%; O 34.45%; S 13.81%

Biological Source: Isol. from *Brassica* sp. and other crucifers

Other Data: $\lambda_{\max}$ 267, 284, 293 nm (MeOH). Readily oxidises in the presence of air and light

>>Derivative: Me ether

Synonym(s): 4-Methoxyindol-3-ylmethyl glucosinolate. 4-Methoxyglucobrassicin

CAS Registry Number: 83327-21-3

Molecular Formula: C₁₇H₂₂N₂O₁₀S₂

Molecular Weight: 478.5

Accurate Mass: 478.071588

Percentage Composition: C 42.67%; H 4.63%; N 5.85%; O 33.44%; S 13.40%

Biological Source: Isol. from *Brassica* sp. and other crucifers

Physical Description: Gummy solid

Other Data: $\lambda_{\max}$ 267, 282, 292 nm (MeOH)

References:

Truscott, R.J.W. *et al.*, *Biochem. Biophys. Res. Commun.*, 1982, **107**, 1258; 1368, (*isol, struct*)

Truscott, R.J.W. *et al.*, *J. Sci. Food Agric.*, 1983, **34**, 247, (*isol*)

Goetz, J.K. *et al.*, *Phytochemistry*, 1983, **22**, 905, (*isol*)

Hanley, A.P. *et al.*, *Phytochemistry*, 1985, **24**, 598, (*isol, struct*)