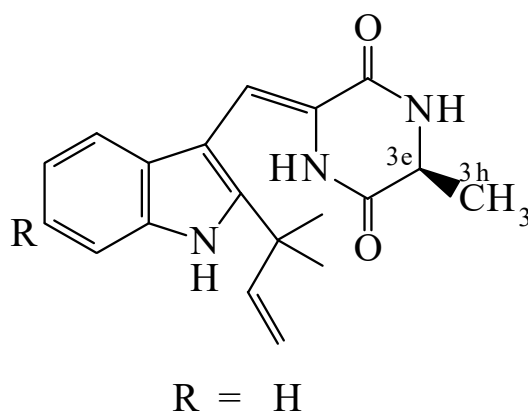




>>Entry Name: Neoechinulin A

Synonym(s): 3-[[2-(1,1-Dimethyl-2-propenyl)-1*H*-indol-3-yl]methylene]-6-methyl-2,5-piperazinedione, 9CI



CAS Registry Number: 51551-29-2

Molecular Formula: C<sub>19</sub>H<sub>21</sub>N<sub>3</sub>O<sub>2</sub>

Molecular Weight: 323.394

Accurate Mass: 323.163377

Percentage Composition: C 70.57%; H 6.54%; N 12.99%; O 9.89%

Biological Source: Isol. from *Aspergillus amstelodami*, *Aspergillus repens* and *Aspergillus ruber*

Biological Use/Importance: Shows high antioxidative activity

Physical Description: Ivory cryst. (MeOH)

Melting Point: Mp 264-265°

UV: [neutral] λ<sub>max</sub> 283 (ε 8300); 338 (ε 9300) (EtOH) [neutral] λ<sub>max</sub> 285 (); 330 () (MeOH) (Berdy) [neutral] λ<sub>max</sub> 283 (ε 8300); 338 (ε 9340) (EtOH) (Berdy)

>>Derivative: 3*e*,3*h*-Didehydro

Synonym(s): Neoechinulin B. Alkaloid E10

CAS Registry Number: 55179-53-8

Molecular Formula: C<sub>19</sub>H<sub>19</sub>N<sub>3</sub>O<sub>2</sub>

Molecular Weight: 321.378

Accurate Mass: 321.147727

Percentage Composition: C 71.01%; H 5.96%; N 13.07%; O 9.96%

Biological Source: Isol. from *Aspergillus amstelodami*

Physical Description: Yellow cryst. (MeOH)

Melting Point: Mp 234-236°

References:

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Marchelli, M. *et al.*, *J.C.S. Perkin 1*, 1977, 713-717, (*isol, uv, ir, pmr*)

Nagasawa, H. *et al.*, *Agric. Biol. Chem.*, 1979, **43**, 1759-1763, (*cmr, struct*)

Nakatsuka, S. *et al.*, *Tet. Lett.*, 1980, 2817-2820, (*synth, uv, ir, pmr*)

Yagi, R. *et al.*, *Biosci., Biotechnol., Biochem.*, 1999, **63**, 932-933, (*isol, pmr, cmr, activity*)

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