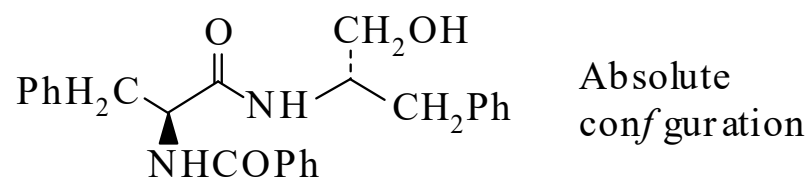




>>Entry Name: Aurantiamide

Synonym(s): *N*-Benzoylphenylalanylphenylalaninol. Antibiotic TMC 58B. TMC 58B



CAS Registry Number: 58115-31-4

Related CAS Registry Numbers(s): 112924-28-4 125276-43-9 150881-04-2

Molecular Formula: C<sub>25</sub>H<sub>26</sub>N<sub>2</sub>O<sub>3</sub>

Molecular Weight: 402.492

Accurate Mass: 402.194343

Percentage Composition: C 74.60%; H 6.51%; N 6.96%; O 11.93%

Biological Source: Alkaloid from *Piper aurantiacum* and *Hybanthus enneasperma*. Prod. by *Aspergillus penicilloides*

Physical Description: Cryst(C<sub>6</sub>H<sub>6</sub>)

Melting Point: Mp 194° (184°)

Optical Rotation: [α]<sub>D</sub><sup>30</sup> -51 (CHCl<sub>3</sub>)

>>Derivative: *O*-Ac

Synonym(s): **Asperglaucide**. Anomalamide. Lyciumamide. Aurantiamide acetate. Antibiotic TMC 58A. TMC 58A

CAS Registry Number: 56121-42-7

Molecular Formula: C<sub>27</sub>H<sub>28</sub>N<sub>2</sub>O<sub>4</sub>

Molecular Weight: 444.529

Accurate Mass: 444.204908

Percentage Composition: C 72.95%; H 6.35%; N 6.30%; O 14.40%

Biological Source: Alkaloid from *Aspergillus glaucus*, *Euphorbia fischeriana* and *Cystoceira corniculata*. Prod. by *Aspergillus penicilloides*

Biological Use/Importance: Selective cathepsin inhibitor

Melting Point: Mp 185-186°

Optical Rotation: [α]<sub>D</sub><sup>30</sup> -45 (CHCl<sub>3</sub>)

>>Derivative: *O*-Benzoyl

Synonym(s): **Aurantiamide benzoate**. *O*-Benzoylaurantiamide

CAS Registry Number: 150881-02-0

Extra CAS Registry Numbers(s): 150881-03-1

Molecular Formula: C<sub>32</sub>H<sub>30</sub>N<sub>2</sub>O<sub>4</sub>

Molecular Weight: 506.6

Accurate Mass: 506.220558

Percentage Composition: C 75.87%; H 5.97%; N 5.53%; O 12.63%

Biological Source: Alkaloid from *Piper aurantiacum* and *Zeyhera digitalis*

Physical Description: Needles (C<sub>6</sub>H<sub>6</sub>/cyclohexane)

Melting Point: Mp 211°

Optical Rotation: [α]<sub>D</sub><sup>30</sup> -26.3 (CHCl<sub>3</sub>)

References:

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Banerji, A. *et al.*, *Phytochemistry*, 1981, **20**, 2217-2220, (*isol*, *synth*, *pmr*, *cmr*, *ms*)  
Banerji, A. *et al.*, *Indian J. Chem., Sect. B*, 1993, **32**, 776-778, (*Benzoylaurantiamide*)  
Ferreira, D.T. *et al.*, *J. Braz. Chem. Soc.*, 1995, **6**, 323-326, (*Benzoylaurantiamide*)  
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Isshiki, K. *et al.*, *Biosci., Biotechnol., Biochem.*, 2001, **65**, 1195-1197, (*isol*)