



Physical Description: Cryst. (Et₂O/petrol)
Melting Point: Mp 195-196°
Optical Rotation: $[\alpha]_D^{20} -290$ (CHCl₃)
Solubility: Sol. MeOH, EtOAc; poorly sol. H₂O, hexane

>>**Derivative:** 9-(*N*-Methyl-L-isoleucine) analogue

CAS Registry Number: 143205-42-9

Molecular Formula: C₆₂H₁₁₁N₁₁O₁₂
Molecular Weight: 1202.625
Accurate Mass: 1201.841369
Percentage Composition: C 61.92%; H 9.30%; N 12.81%; O 15.96%
Biological Source: Prod. by *Tolypocladium inflatum* and *Tolypocladium niveum*
Biological Use/Importance: Antiviral agent
Optical Rotation: $[\alpha]_D -235$ (CHCl₃). $[\alpha]_D -193$ (MeOH)

>>**Variant: Cyclosporin B**

Synonym(s): 7-L-Alaninecyclosporin A, 9Cl. S 7481F2. Antibiotic S 7481F2

CAS Registry Number: 63775-95-1

Molecular Formula: C₆₁H₁₀₉N₁₁O₁₂
Molecular Weight: 1188.599
Accurate Mass: 1187.825719
Percentage Composition: C 61.64%; H 9.24%; N 12.96%; O 16.15%
Biological Source: Metab. of *Trichoderma inflatum*
Biological Use/Importance: Antifungal and immunosuppressive agent
Physical Description: Amorph. powder
Melting Point: Mp 149-152°
Optical Rotation: $[\alpha]_D^{20} -238$ (c, 0.62 in CHCl₃)
Solubility: Sol. MeOH, CHCl₃; poorly sol. H₂O, hexane

>>**Derivative:** *N*⁵-De-Me

Synonym(s): 7-L-Alanine-5-L-valinecyclosporin A. *N*⁵-Demethylcyclosporin B

Molecular Formula: C₆₀H₁₀₇N₁₁O₁₂
Molecular Weight: 1174.572
Accurate Mass: 1173.810069
Percentage Composition: C 61.36%; H 9.18%; N 13.12%; O 16.35%
Biological Source: Prod. by *Mycelium steriliae*
Physical Description: Cryst.

>>**Variant: Cyclosporin C**

Synonym(s): 7-L-Threoninecyclosporin A, 9Cl. WF 3484. Antibiotic WF 3484

CAS Registry Number: 59787-61-0

Molecular Formula: C₆₂H₁₁₁N₁₁O₁₃
Molecular Weight: 1218.625
Accurate Mass: 1217.836284
Percentage Composition: C 61.11%; H 9.18%; N 12.64%; O 17.07%
Biological Source: From *Trichoderma inflatum* and *Tolypocladium sinense*. Also from *Nectria* sp. 3484
Biological Use/Importance: Tachykinin antagonist
Physical Description: Needles (Me₂CO)
Melting Point: Mp 152-155°
Optical Rotation: $[\alpha]_D^{20} -255$ (c, 0.5 in CHCl₃)
Solubility: Sol. MeOH, Me₂CO, EtOAc, EtOH, Et₂O, CHCl₃; poorly sol. H₂O, hexane