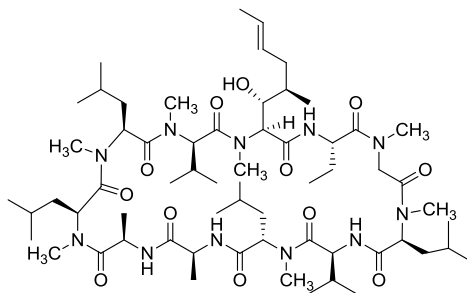


Cyclosporin H

Code No.: **BIA-C1248**

Pack sizes: **1 mg, 5 mg**



Synonyms : 5-(N-methyl-D-valine)cyclosporine A

Specifications

| | |
|-------------------|--|
| CAS # | : 83602-39-5 |
| Molecular Formula | : $C_{62}H_{111}N_{11}O_{12}$ |
| Molecular Weight | : 1202.6 |
| Source | : <i>Trichoderma</i> sp. |
| Appearance | : White powder |
| Purity | : >95% by HPLC |
| Long Term Storage | : -20°C |
| Solubility | : Soluble in ethanol, methanol, DMF or DMSO. Limited water solubility. |

Application Notes

Cyclosporin H is a minor analogue of the cyclosporin family which is immunologically inactive as it does not bind to immunophilin. Cyclosporin H is the most extensively investigated of the minor cyclosporin analogues. It is a potent inhibitor of tumor-promoting phorbol esters on mouse skin in vivo, and of calcium/calmodulin-dependent EF-2 phosphorylation in vitro, a potent and selective antagonist of formyl peptide receptor and inhibitor of formyl peptide-induced superoxide formation.

References

1. The weak immunosuppressant cyclosporine D as well as the immunologically inactive cyclosporine H are potent inhibitors in vivo of phorbol ester TPA-induced biological effects in mouse skin and of Ca^{2+} /calmodulin dependent EF-2 phosphorylation in vitro. Gschwendt M. et al., BBRC 1988, 150, 545.
2. Differential inhibition of human neutrophil activation by cyclosporins A, D, and H. Cyclosporin H is a potent and effective inhibitor of formyl peptide-induced superoxide formation. Wenzel-Seifert K. et al., J. Immunol. 1991, 147, 1940.
3. Cyclosporin H is a potent and selective formyl peptide receptor antagonist. Comparison with N-t-butoxycarbonyl-L-phenylalanyl-L-leucyl-L-phenylalanyl-L-leucyl-L-phenylalanine and cyclosporins A, B, C, D, and E. Wenzel-Seifert K. & Seifert R. J. Immunol. 1993, 150, 4591.
4. Cyclosporin H is a potent and selective competitive antagonist of human basophil activation by N-formyl-methionyl-leucyl-phenylalanine. de Paulis A. et al., J. Allergy Clin. Immunol. 1996, 98, 152.