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32-3644: Cyclosporin-A

Description

Source: Beauveria Nlyea. Cyclosporin is a cyclic polypeptide immunosuppressant agent consisting of 11 amino acids and having a molecular weight of 1202.64. It is produced as a metabolite by the fungus species Beauveria nlyea. Chemically, cyclosporin is designated as [R-[R*,R*-(E)]]-cyclic(L-alanyl-D- alanyl-N-methyl-L-leucyl-N-methyl-L-leucyl-N-methyl-L-leucyl-N-methyl-L-leucyl-N-methyl-L-leucyl-N-methyl-L-leucyl). Molecular Formula: C62H111N11012. Cyclosporin A is a noncytotoxic, natural, 11 amino acid cyclic peptide used clinically as an immunosuppressant for the treatment of autoimmune and inflammatory disorders and to prevent organ rejection after transplantation. Cyclosporin acts chiefly by inhibiting T lymphocyte function, which is vital for the propagation of inflammation. Cyclosporin A does not suppress the activity of other hematopoietic cells, does not cause bone marrow suppression and has a rapid onset of action as opposed to other immunosuppressive agents. Nevertheless, Cyclosporin A induced nephrotoxicity remains an important clinical problem, and oxidative stress has been implicated as a potential responsible mechanism.

Product Info

Amount: 4 grams

Purification: Greater than 99.0% as determined by RP-HPLC.

Content: The Cyclosporin-A was lyophilized from a concentrated (1mg/ml) solution with no additives.

Lyophilized Cyclosporin A although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution Cyclosporin A should be stored at 4°C between 2-7

days and for future use below -18°C.Please prevent freeze-thaw cycles.

Application Note

Storage condition:

It is recommended to reconstitute the lyophilized Cyclosporin-A in anhydrous ethanol R at a concentration of 50mg/ml.

