California Bioscience

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Product Datasheet

Product Name	Cyclosporine-A
Cata No	CB501029
Source	Beauveria Nlyea

Description

Cyclosporine 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. Cyclosporine acts chiefly by inhibiting T lymphocyte function, which is vital for the propagation of inflammation. Cyclosporine 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, Cyclosporine A -induced nephrotoxicity remains an important clinical problem, and oxidative stress has been implicated as a potential responsible mechanism.
Cyclosporine 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.

Purity

Greater than 98.0% as determined by:
(a) Analysis by RP-HPLC.
(b) Mass Spectral Anaylsis {MALDI-TOF exhibits correct Mw}.

Storage

It is recommended to reconstitute the lyophilized Cyclosporine A in sterile 18MΩ-cm H_2O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.

Stability

Lyophilized Cyclosporine A although stable at room temperature for 3 weeks, should be stored desiccated below -18℃. Upon reconstitution Cyclosporine A should be stored at 4℃ between 2-7 days and for future use below -18℃.
Please prevent freeze-thaw cycles.