Creative Enzymes®

Photolyase for Cosmetics

Cat. No. EXTZ-762

Lot. No. (See product label)

Introduction

Description	DNA is the code of life, and its structure and function are directly related to cellular health and the continuation of life. One of the mechanisms by which ultraviolet (UV) radiation damages the skin is by impairing cellular DNA, leading to the formation of "sunburned cells". A major form of such DNA damage is the generation of cyclobutane pyrimidine dimers (CPDs). Photolyase, a fermentation product derived from Thermus thermophilus, is a highly efficient and specific enzyme that repairs intracellular DNA damage. It can specifically bind to pyrimidine dimers in DNA, reduce and cleave these dimers, and ultimately restore DNA to its normal structural conformation.
Applications	Daytime protection (water-based products, sunscreens, day creams), after-sun repair, anti-aging products

Product Information

Source	Thermus thermophilus
Form	Liquid or Powder