

ABSTRACT SUBMISSION FORM**Submission Deadline: Dec. 20, 2002****■ Author's Information**

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■ Subject Classification

- Advances in skin/hair-care research/Active Ingredients
- Advances in Formulation Technology
- Advances in Evaluation techniques for efficacy and safety

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PROTECTIVE EFFECT OF DA-3711, A NEW ANTIWRINKLE AGENT, AGAINST UVB-INDUCED SKIN DAMAGE IN HAIRLESS MICE MODEL

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DA-3711 is a novel, antiwrinkle agent containing growth factors derived from human skin culture. In this study, effect of topical application of DA-3711 on chronic ultraviolet B (UVB)-induced skin damage was evaluated in hairless mice model. Exposure to UVB for 8 weeks induced apparent wrinkles on the back skin of the mice. The dorsal surfaces were exposed to UVB for a further 8 weeks, during which the surfaces were treated daily by topical application of a lotion containing either 35% or 70% of DA-3711. For comparison, lotion base, lotion base containing Cylasphere Retinol[®] (2500 I.U., Coletica) and NouriCel[®] (Biozhem) were applied topically once a day for 8 weeks. Four or eight weeks after starting the treatment, mice were sacrificed and the effects of DA-3711 on photodamage were assessed by replica analysis and histological examinations. Topical treatment with 70% DA-3711 completely protected against UVB-induced visible wrinkling and histological alterations. Application of 35% DA-3711 and NouriCel[®] also showed significant protective effects on the skin in terms of wrinkle formation and epidermal and dermal thickness. In contrast, retinol showed no effects on photoaging both visually and histologically. These results suggest that topical application of DA-3711 may be effective in preventing or reducing UVB-induced photodamage of the skin.