



Natural compounds activating Sirt1 for the cellulite treatment

Notre référence :
04703-01

Status des brevets

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"Nouveaux composés
activateurs de l'activité
enzymatique de Sirt1 et
compositions
pharmaceutiques ou
cosmétiques les
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Status Commercial

Exclusive or non-
exclusive licenses,
Collaborative
agreement

Laboratoires

CONTEXT

The sirtuin family concerns nuclear NAD⁺ dependant deacetylases, playing an important role in deacetylation of histones.

Sirtuin 1 is the best known sirtuin. It is involved in an important number of metabolic processes. It has several targets as p53, FoxO, PPAR gamma, PGC1 alpha, UCP2, LXR and Ku70, key regulating proteins in cell functions.

Sirt1 has a global anti-aging effect.

The Sirt1 expression decreases along the lifetime.

Sirt1 has also a role in adipogenesis and lipid accumulations. The lipolysis is increased by activating Sirt1 activity.

TECHNICAL DESCRIPTION & DEVELOPMENT STAGE

The invention concerns new natural compounds, with a steroid structure, for dermo-cosmetic applications.

These compounds are vegetal steroids.

They show a stimulation activity towards the enzyme Sirtuin 1 (Sirt1), involved in lipid metabolism and aging.

In vitro experiments showed that the compounds are able to inhibit adipogenesis, to enhance lipolysis, and that they have an anti-inflammatory effect.

As vegetal steroid, tests have been made to check their potential interactions with oestrogen and testosterone receptors. The study showed that no interaction occurs with these receptors and undesirable side effects should thus be limited.

A study on model animal (sirt Knock out mice) showed that the compounds had no effect on the animals and that the activity of the compounds is 90% dedicated to Sirt1 activation.

INDUSTRIAL APPLICATIONS

These new compounds could have an interest for cellulite treatment and sub-cutaneous accumulations and the related inflammation.

They could be incorporated in cosmetic preparations to slow the skin aging process.

For further information, please [contact us](#) (Ref 04703-01)

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Mots clés :
Skin care