ANTI-AGE/ALE

Diamines anti AGE and ALE, chelators of metals and/or free radicals, active against skin aging

Keywords

- AGE/ALE
- Cosmetic
- Antiapoptotic
- Antioxidant
- Anti-free radicals
- Metal chelator

Intellectual Property

Priority patent FR 15 56366 of 06/07/2015

Extensions: US, CN, JP, KR, EP (FR, DE, GB, IT,ES, NL, BE, PT, SE, AT, CH, DK, FI.)

Development Status

- Synthetic routes optimized for two families of molecules.
- Metal chelation validated *in vitro*
- Biological effects validated on several cell lines
- Absence of cytotoxicity, mutagenic effect and irritant effect

Partnership

License to a manufacturer / distributor of cosmetic active ingredients

Technology

AGEs (Advanced Glycation End products) are end-products resulting from the oxidative metabolism of carbohydrates.

These compounds are particularly involved in skin aging:

- Loss of skin tissue elasticity
- Skin pigmentation

ALEs (Advanced Lipid peroxidation End products) are end-products resulting from the degradation of polyunsaturated fatty acids under the effect of oxidative stress induced by transition metals.

These compounds are also involved in skin aging:

- Decreased skin resistance to UV.

To date, no existing compound makes it possible to inhibit the formation of AGEs and ALEs and to trap the transition metals.

Benefits

- These new compounds are able to trap both the precursors of AGEs, those of ALEs but also to trap transition metals.
- Anti-radical and anti-apoptotic biological effects have been confirmed *in vitro*.
- Simple synthesis (5/6 steps), correct yield, low production cost, industrially transposable.
- Basic compounds which can be prepared in the form of salts.
- HET-CAM and skin irritation (Episkin) test successfully passed
- AMES test successfully passed

Applications

- Cosmetics: Treatment and/or prevention of skin aging

This product is not on the China list

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Reference projet et date

Reference