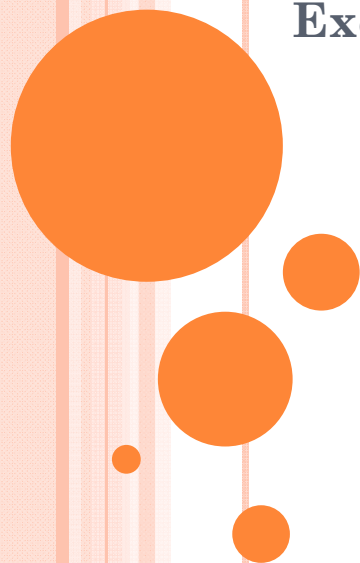




Skin whitening raw materials

TRANEXAMIC ACID

Excellent whitening effective

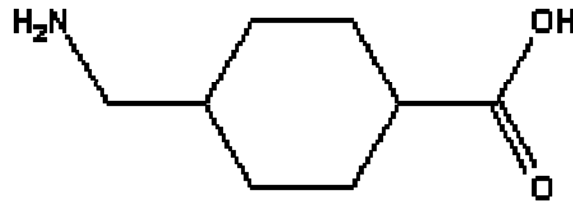


TRANEXAMIC ACID

○ Name: Tranexamic acid

CAS No.:1197-18-8

○ Structure:



○ It's also known as a "broken blood", as a coagulant, and it's an unexpected result of the healing process, which is the use of a prescription for liver patch and melanoma



BLACKENING AND WHITENING

Nowadays many whitening ingredients, mostly restrain Melanosome Tyrosinase activity in the to reduce the generation of Melanin, if only use the machine to turn the whitening ingredients, is often only blocking Melanin connecting part of the stage, cannot achieve comprehensive blocking Melanin and deposited. Shiseido has a successful product which used in medical beauty and skin whitening level of specialized medical needle "the bright acid" used in whitening maintain article, can be directly smear on skin, make the whitening pale spot is more accurate, safe, and that you don't have to needle can enjoy whitening clinical medical level.

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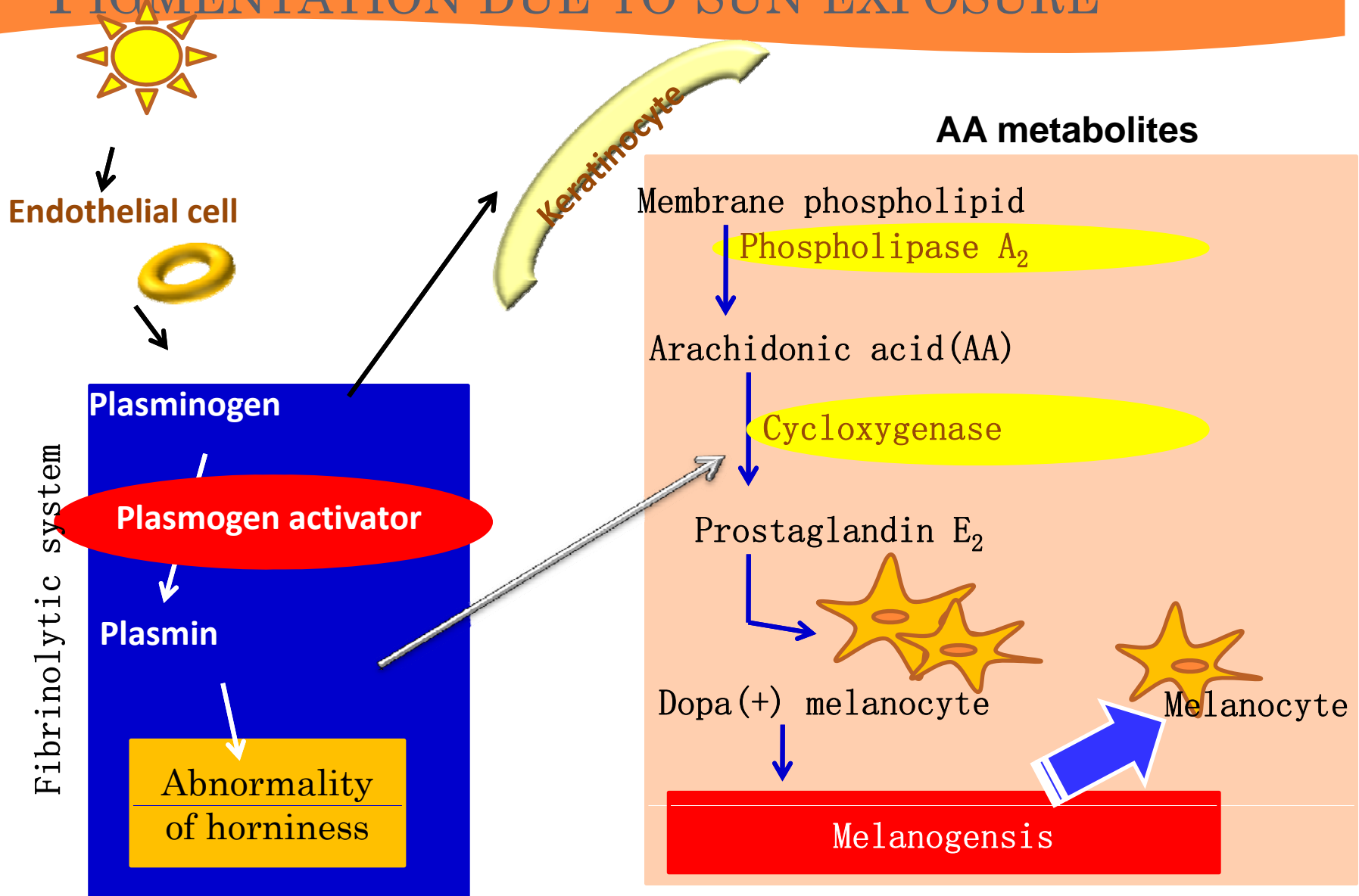


BLACKENING AND WHITENING

- Melanin is a dark brown pigment found in the skin or hair of animals. It is produced and stored by a special type of cell called melanin cells. It is the presence of melanin that gives skin color. Once melanin cannot form under certain reason, also caused pigment to be lost, formed white spot thereby.
- Melanin is actually a protein found in everyone's body. They are found in cells at the base of the skin, not really melanin, but a substance called "melanin protoplasm," also known as "chromogenic mother cells." Chromoplast pigment secretion sallowness ning, when ultraviolet irradiation (B wave, A wave) into the skin (B wave UVB rays on the skin base layer, namely, A wave is more severe, role in the dermis of the skin), the skin will be in A state of "self protection", by uv irritation mai ning pigment, activate the activity of tyrosinase, to protect our skin cells. Tyrosinase reacts with tyrosine in the blood, producing a substance called dopamine. Dopamine is the precursor of melanin, which is oxidized by tyrosine and releases melanin. The melanin moves through the cellular metabolism layer by layer again, arrive skin epidermis layer to form the shape such as freckle, sunburn, black spot.

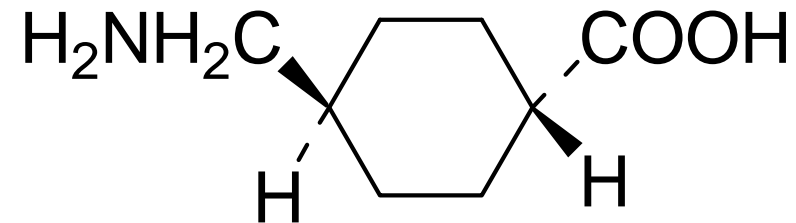


PIGMENTATION DUE TO SUN EXPOSURE



THE MECHANISM OF TRANEAMIC ACID

- Because Plasmin affects pigmentation, it must be avoided



- Since it can inhibit Plasminogen for a long time, it has a strong effect in helping coagulation
- In recent years, it has been found to help inhibit arachidonic acid and prostaglandin, reduce pigmentation and whiten skin

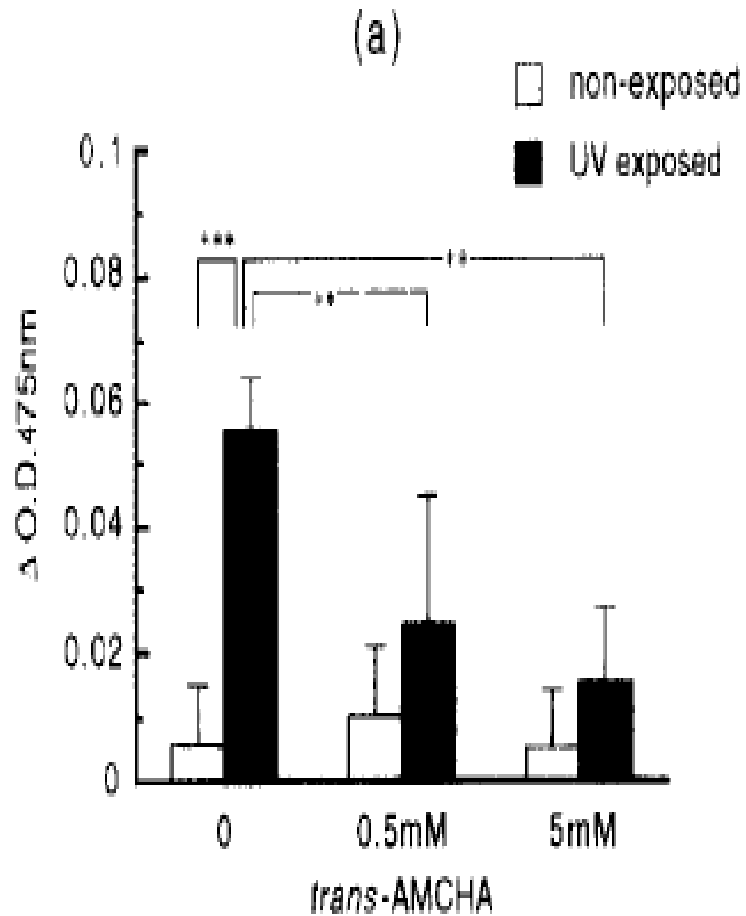


FOUR INNOVATIVE WHITENING MECHANISMS

- Rapidly inhibit the activity of tyrosinase and melanin cells, and at the same time block melanin aggregation
- Effectively calming the stress melanin agglutination caused by deep skin inflammation
- Effectively block the secondary oxidation of melanin
- Effectively reduce the precipitated melanin and promote the stripping of the melanin

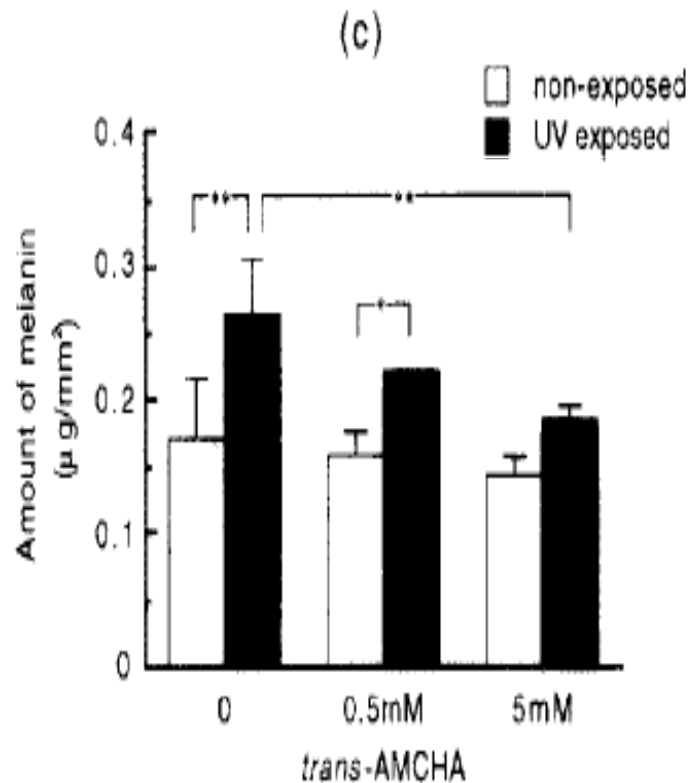


TEST OF WHITENING EFFECTIVE



Tyrosinase activity in epidermal sheets was significantly increased in UV-exposed regions compared to unexposed regions. The increase was significantly suppressed by tranexamic acid

TEST OF WHITENING EFFECTIVE



Measurement of epidermal melanin by ESR spectrometry revealed a significant increase in melanin in UV-exposed regions compared to the unexposed regions. Furthermore, tranexamic acid concentration-dependently reduced the amount of melanin and this reduction.

FORMULA ADVANTAGES

Formula advantages for Tranexamic acid:

- High water-soluble, easily soluble in water, colorless, odorless, not easy to change color.
- Combined with other whitening factors, high stability. High thermal stability, not affected by high temperature metamorphism.
- Within 1~2 weeks can make the skin transparent white bright, quick - effect whitening products.
- Used for mask sticking without any tingling or pain. Recommended dosage: 3% (product pH is recommended at 3~9.)



APPLICATION EXAMPLE

[Shiseido Haku Melanofocus EX Whitening Essence](#), an award winning whitening essence, was first created in April 2005 as Haku Melanofocus as a whitening beauty fluid containing an innovative whitening ingredient m-Tranexamic acid.

[Beautyeasy Chamomile & Tranexamic Acid Ultra Soothing Whitening Essence](#), this well designed formulation is gentle enough for sensitive skin and contains the highly effective skin lightening and anti-inflammation complex of 3% tranexamic acid and mulberry extract, the skin soothing properties of licorice and chamimile extracts, and the free radical scavenger,

CONCLUSION

1. Four whitening mechanisms

Activity of tyrosinase and melanin cells was inhibited and melanin he aggregation was blocked. Reduce the concentration of stress melanin; Effective reduction of the precipitated melanin; Promote the removal of melanin.

2. Formula advantage

Easy to dissolve in water, colorless, tasteless, not easy to change color; Easy to mix with other whitening factors, high stability; High thermal stability, not affected by high temperature metamorphism; Used for mask sticking without any tingling or pain.

3. Quick effect reletively

Within 1-2 weeks can make the skin transparent and bright, quick effect whitening products.

4. Recommended dosage: 3% (product pH is recommended at 3-9.)



OUR **SUPPLY ADVANTAGE** FOR TRANEXAMIC ACID

- ◆ We supply it from 2008 years.
- ◆ The supply chain is very stable.
- ◆ The environmental protection become more and more severe. Usually only old supply chain keep supplying.
- ◆ Product quality is from GMP plant not only used for cosmetic fields, but also used for pharmaceutical tablets. Quality is strictly according to BP2017 .
- ◆ We are glad to supply sample.





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