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NET-DG

甘草

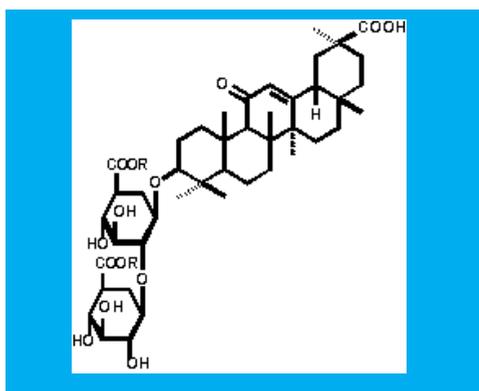


- Water-Soluble Anti-Inflammatory
- Approved for Quasi-Drug Applications in Japan
- Protector of Hyaluronic Acid



DESCRIPTION

Dipotassium Glycyrrhizinate ($C_{42}H_{60}K_2O_{16}$) is a water soluble active with a molecular weight of 899. It is a natural anti-inflammatory extracted from licorice roots.



PROPERTIES

NET-DG is an anti-inflammatory which can play an important role in formulating today's "sensitive skin" treatments. It has been tested in vitro to demonstrate anti-inflammatory effects, anti-hyaluronidase activity, UV-erythema reduction, inhibition of histamine release, and effect on arachidonic cascade (LTB₄, PGE₂). Anti-inflammatories such as NET-DG are now commonly used as a standard "fourth phase" in Japanese emulsions for skin and hair care. NET-DG is fast acting and it was tested in a base vs 0.2% placebo to reduce lactic acid itching effect significantly in 5 minutes.

FORMULATION

NET-DG is a white to faintly yellow crystalline powder with a faint characteristic odor. It is soluble in water and in 50% ethanol. The recommended use level is 0.3 %. This product is stable at pH 5.0 to 11.0.

LEGISLATION

INCI Name: Dipotassium Glycyrrhizinate JMW: 41-500129
CAS: 68797-35-3 EINECS: 272-296-1

ECOCERT Status: Certified as natural to the ECOCERT Cosmetic Standards.

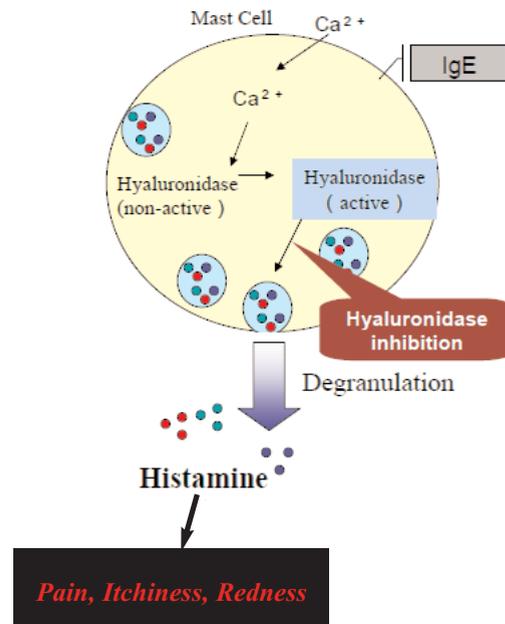


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NET-DG

I. EFFECT OF NET -DG ON HYALURONIDASE ACTIVITY

Hyaluronidase, an enzyme is activated during inflammation, plays a role in the destruction of the connective tissue matrix, and increases the permeability of inflammatory cells and blood vessels. 3.4 ug/ml of NET-DG inhibits 50% of Hyaluronidase activity.



II. ANTI-STINGING TEST

Tested in vivo on 6 patients split in 2 groups. They wash the face. 20 minutes later a cream with 5% lactic acid with or without 0.2% NET-DG and repeat the operation but reversing the application. All the patients have the same treatment but in different sequence (Blind Test)

