

Request for Certification

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To: Commissioner, JPO

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2. Requester:

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3. Name of Document relating to Certification

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(JP H9-157153 A)

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Please certify that the matters disclosed in the "Name of Document relating to Certification" are true.

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It is hereby certified that the "Name of Document relating to Certification" is true.

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(54) [Title of the invention]

Preparation for external use on the skin

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(57) [Abstract]

[Problem] To offer preparations for external use on the skin which have a synergically intensified activated oxygen species eliminating action, and can prevent skin ageing and injury caused by intra- and extracorporeal oxidation stress.
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[Means for solving the problem] One or two or more selected from adenosine and derivatives thereof having a hydroxy radical eliminating action, and an activated oxygen species eliminating agent selected from hamamelitannin, extracts of witch hazel, oriental white
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oak, Mongolian oak, horse chestnut, great burnet and tree peony, thioredoxin, thioredoxin reductase and a complex thereof and/or placental extract are used concomitantly, included in a base for an external
5 preparation for use on the skin. Adenosine derivatives include adenosine monophosphate, adenosine diphosphate, adenosine triphosphate and cyclic adenosine monophosphate.

[Claims]

[Claim 1] Preparation for external use on the skin, constituted by containing one or two or more selected from adenosine and derivatives thereof, and hamamelitannin.

[Claim 2] Preparation for external use on the skin constituted by containing one or two or more selected from adenosine and derivatives thereof, and one or two or more extracts of a plant selected from witch hazel, (*Hamamelis japonica* Sieb. et Zucc., *Hamamelis obtusata* Makino, *Hamamelis virginiana* L.), oriental white oak (*Quercus serata* Thunb.), Mongolian oak (*Quercus crispula* Blume), horse chestnut, (*Aesculus hippocastanum* L.), great burnet (*Sanguisorba officinalis* L.) and tree peony (*Paeonia suffruticosa* Andr.).

[Claim 3] Preparation for external use on the skin constituted by containing one or two or more selected from adenosine and derivatives thereof, and one or two or more of thioredoxin, thioredoxin reductase and a complex thereof,

[Claim 4] Preparation for external use on the skin constituted by containing one or two or more selected from adenosine and derivatives thereof, and one or two or more of thioredoxin, thioredoxin reductase and a complex thereof, and reduced nicotinamide adenosine nucleotide phosphate.

[Claim 5] Preparation for external use on the skin constituted by containing one or two or more selected from adenosine and derivatives thereof, and a placental extract.

[Claim 6] Preparation for external use on the skin according to claim 1 to claim 5, characterized in that

the adenosine derivatives are adenosine monophosphate, adenosine diphosphate, adenosine triphosphate and cyclic adenosine monophosphate.

5 **[Detailed Description of the Invention]**

[0001]

[Technical field of the invention] The present invention relates to preparations for external use on the skin, which have a synergically intensified
10 activated oxygen species eliminating action and can prevent skin ageing and injury caused by intra- and extracorporeal oxidation stress. More specifically, it relates to preparations for external use on the skin constituted by concomitant use of adenosine and
15 derivatives thereof, and (a) constituent(s) having an activated oxygen species eliminating action.

[0002]

[Prior art] UV radiation and the internal metabolism of the body produce as activated oxygen
20 species predominantly hydrogen peroxide, and hydroxy radicals, singlet oxygen and superoxide, within the body; it is well known that these have various adverse effects on the body. In relation in particular to skin tissue, it has been suggested that such activated
25 oxygen species are profoundly associated with skin ageing phenomena such as wrinkle formation and modification of dermal constituents, as well as peroxidation of skin lipids.

[0003] In order to prevent or improve skin ageing
30 and injury caused by such activated oxygen species, substances which eliminate these have been screened for a long time, and vitamin E group compounds, or plant tannins such as tea tannin, carotenoids, or other animal or plant extract constituents, etc., have been
35 employed

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