POLI-DAL GHIMAS
NORMALIZES THE INFLAMMATORY RESPONSE

THE MOST POWERFUL ANTI-OXIDANT
THE MOST EFFECTIVE ANTI-ROS

THE ONLY ONE
BASED ON POLYDATIN
Polydatin, a natural glucoside of resveratrol, thanks to an active transport mechanism that uses glucose transporters, reaches all the cells of the tissues in very high and active concentrations.

<table>
<thead>
<tr>
<th>RESVERATROL</th>
<th>POLYDATIN</th>
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<tbody>
<tr>
<td><img src="image" alt="Resveratrol molecule" /></td>
<td><img src="image" alt="Polydatin molecule" /></td>
</tr>
<tr>
<td>intestinal absorption</td>
<td>intestinal absorption</td>
</tr>
<tr>
<td><strong>10-20%</strong></td>
<td><strong>90-100%</strong></td>
</tr>
<tr>
<td>trans-cell membrane absorption</td>
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</tr>
<tr>
<td><strong>10-20%</strong></td>
<td><strong>90-100%</strong></td>
</tr>
<tr>
<td>bioavailability</td>
<td>bioavailability</td>
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<tr>
<td>≈1.5% of the dose taken</td>
<td>≈95% of the dose taken</td>
</tr>
</tbody>
</table>

**SIDE EFFECTS**

**DIARRHEA AND INTESTINAL DISORDERS**

in 21% of cases at high doses (3-5 g/day) for three weeks

(5 g correspond to 500 mg in circulation and 50-100 mg bioavailable to the cells)

**WITHOUT SIDE EFFECTS**

even at high doses for a prolonged period of time

POLYDAL GHIMAS

POLYDATIN NORMALIZES THE INFLAMMATORY RESPONSE

• modulating the production of regulatory cytokines
• modulating the production of pro-inflammatory cytokines
• blocking the lipid peroxidation at the level of the membrane
• blocking the inflammatory cascade of arachidonic acid
• is active both outside and inside the cell
• exerts its anti-radical action at the level of the cell membrane, mitochondria and nucleus
• blocks lipid peroxidation, which determines the onset of inflammation and the cause of many diseases and aging of cells


POLYDAL

• prevents and fights damage to the CELL MEMBRANE, DNA and MITOCHONDRIA
• neutralizes the cellular damage from free radicals and ROS.

CYTOPROTECTIVE EFFECTS OF POLYDATIN on human keratinocytes (HaCaT) subjected to thermal stress

(Ravagnan et al. 2013)

POLYDATIN reduces the production of pro-inflammatory cytokines (TNF-α, IL-6, IL-8) in stressed cells, and pre-treated with polydatin; however, the untreated control cells have a maximal cytokine production.

POLYDATIN increases the β-defensins, which increase the immune defence of the skin and normalize the inflammatory process. The stressed and not treated control cells, however, do not produce β-defensins.

Legend:
CONTROL HaCaT subject to heat stress;
POLYDATIN HaCaT pre-treated with polydatin and subject to heat stress

NB: a part of the polydatin inside the cell is transformed by deglycosylation into resveratrol

IN DERMATOLOGY

• improves the skin’s immune defences
• decreases the damage of the inflammatory process
• increases cellular repair and release of β-defensins, which regulate cellular defences against environmental stresses

(Cui et al. 2006, Lanzilli et al. 2011, Stevanato et al. 2008, Yao et al. 2011)
POLYDATIN IN ATOPIC DERMATITIS IN ADULTS

Giuseppe Maria Izzo - M.D. Dermatologist – Neaples (in print)

EVALUATION OF POLYDATIN EFFECTIVENESS IN ATOPIC DERMATITIS IN ADULTS
Giuseppe Maria Izzo - M.D. Dermatologist – Neaples (in print)

The topical application of POLIDAL is effective in atopic dermatitis, reducing itching and erythema.

The use of POLIDAL cream, body and and detergent associated with POLIDAL tablets provides better and faster results.

POLIDAL is the safest treatment for patients suffering from atopic dermatitis, even in its most severe forms.

POLIDAL can also be used in the course of any other therapy, topical or systemic, in the treatment of dermatoses.

Polydatin
- reduces alterations of the skin barrier caused by irritants and allergens,
- reduces inflammation,
- block the vicious cycle of itching and scratching.
It is a dietary supplement based on polydatin, a natural substance extracted with a patented technique, totally bioavailable, that guarantees a powerful anti-oxidant and anti-free radicals throughout the body, both inside and outside of each cell. Its action is mainly to block free radicals and oxidizing agents that damage cells and the body’s metabolism, to modulate and regulate the inflammatory response and to strengthen and normalize the action of the immune system.

In many dermatological diseases, such as in atopic dermatitis of the trunk or limbs, and in psoriasis lesions, clinical trials show that the efficacy of the dermo-cosmetic creams with polydatin is enhanced by using also the POLIDAL integrator 40 mg tablets, with a recommended dosage of 2-3 tablets a day for at least a month.
It is a fluid cream with a light texture, particularly suitable for use on extensive areas of skin, face and body, non-greasy and gives the skin a feeling of extreme smoothness. Polydatin is a powerful anti-aging. Applying the product twice a day, morning and evening, it acts on the skin’s softness, prevents and reduces the appearance of age spots, protects against the harmful effects of the weather, solves quickly reddening of the skin and eliminates the itching.

Thanks to the presence of polydatin, protects from external agents aggressions, fights redness, itching, improves elasticity and skin hydration. Apply twice daily, morning and evening, with a gentle massage.

Ideal for daily cleaning of the skin, respects the pH and elasticity of the skin, ensures proper hydration of the skin. Thanks to polydatin, protects from external agents aggressions, fights redness and itching.
References


Apply 2 times a day, morning and evening and massage gently. It is indicated for cutaneous extensive areas of the body and face

Apply 2 times a day, morning and evening and massage gently

Apply the cleaner 1-2 times a day and remove any excess gently

It is preferable to take 2-3 tablets per day for 2-3 months, then 1-2 tablets a day