ALAFOR

# PRO REGENER

## GEL WITH ALAPTIDE




**PRO REGENER is a gel that has a beneficial influence on burned, inflamed and irritated skin and has excellent regenerative effects.** The main active ingredient of the product is ALAPTIDE, which is a biologically active, completely non-toxic and very stable neurodipeptide as an analogue of the body's own substance PLG. **The advantage is also the psychological stimulus of the effect, because the client can see a fast improvement and trusts the product.**

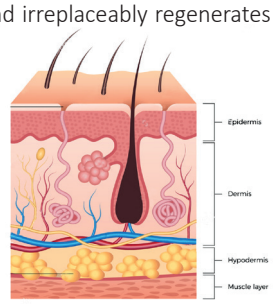
ALAPTIDE is a derivative of a hormone release inhibitor that stimulates melanocytes (MIF), i.e. L-prolyl-L-leucylglycinamide. It was prepared at the Research Institute of Pharmacy and Biochemistry in the context of the study of MIF spiro derivatives, whose use as a therapeutic agent is limited by its easy enzymatic hydrolysis. The derivatives mentioned above were synthesized primarily to eliminate this disadvantage.

*(Kasafírek E. et al. no.pat. 231 227 (1986); 260 899 (1989) U.S. Pat. 5,318,973 (1994).*

As the best analogue- both in terms of enzymatic stability and because of its pharmacodynamic profile- alaptide was selected. Among other effects, alaptide has been shown to have a significant healing effect in experimental animal models as well as in human medicine. Alaptide was tested in the diploid human embryonic lung cell line LEP-19 with concentrations of 5, 10 and 100 µg/ml of medium, where it showed a stimulatory effect on cell growth and proliferation without transformative changes in cell morphology. In case of in vitro assays, alaptide at lower concentrations was also shown to increase keratinocyte proliferation, which probably significantly affects epidermal cell regeneration, and both of these effects contribute significantly to the healing effect of alaptide. Alaptide has a negative effect on inhibiting the release of melanocyte-stimulating hormone, thereby increasing the concentration of melanocytes in the epidermis.

**The second benefit is the composition of the preparation, which allows rapid absorption of the active ingredients into the bloo stream, so it means a partial action of the alaptide in the body,** see the following description:

After topical application, it reaches the dermis via the stratum corneum and the stratum basale and then through the bloodstream into the weakened tissue, which it regenerates unbelievably in the very areas that have been the subject of clinical testing. Burns, tibial ulcers and bedsores were treated on the clinic. The gel works beneficially in many other skin conditions and irreplaceably regenerates the skin, but also the organism, thanks to the penetration of alaptide into the dermis. The product takes into account the principles of HLB coefficient. It is worth noting that the HLB value of skin emulsifiers is in the range of 4-6. Ideal cosmetic skin care products should be at this level. In our formulation we achieve a parameter of 4-6, thus ensuring the penetration of the active ingredients in the highest possible content to ensure that their benefits to the body are balanced and therefore most functional.




Production from verified raw materials is subject to strict technological, hygienic standards and is carried out in accordance with the quality system according to EN ISO 22716 (681503) and an environmental management system according to the requirements of ČSN EN ISO 14001:2016. HACCP systems are also implemented and certified.

### ALAPTIDE

biologically active, completely non-toxic and very stable neurodipeptide as an analogue of the body's own substance „PLG". After the topical application of alaptide and its penetration into the dermis, it enters the weakened tissue through the bloodstream, where it activates the relevant enzymes by a very specific mechanism, as well as the white blood cells, which, thanks to the extraordinary ability of T-lymphocytes, trigger defensive reactions.

### D-PANTHENOL

has antistatic, anti-inflammatory, antibacterial, regenerative and soothing effects. It improves skin hydration (softens the skin, leaving it smooth and restoring its natural balance), reduces itching of the skin, accelerates healing of epidermal wounds (burns, sunburn, insect bites).

### ALLANTOIN

protects, soothes and moisturises the skin. It promotes the growth of new skin cells and the renewal of skin tissue. Relieves irritation. Protects the skin from the harmful effects of UV rays and regenerates it.

### HAMAMELIS VIRGINIANA (witch-hazel)

helps with excessive dryness, loss of elasticity, itching and skin damage. Very popular in cosmetics to fight against skin ageing.

### BOSWELLIA SERRATA

is a powerful natural formula, with anti-inflammatory boswellic acid being its main active ingredient.

**Usage:** rub into the skin on the targeted area as needed, even several times a day in a very light layer.

**Ingredients(INCI):** Aqua, Glycerin, Panthenol, Allantoin, Hydroxyethylcellulose, Phenoxyethanol, Caprylyl Glycol, Boswellia Serrata Extract, Hamamelis Virginiana Extract, Alcohol Denat., Alaptide, Diethylhexyl Sodium Sulfosuccinate, CI 77891, Silver Chloride

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