



imunoglukan

P4H[®]

Increases activity of immune cells
Reduces risk of pathogen-induced infections
Enhances the skin's natural repair processes
Adjuvant effect when used with antibiotics and vaccines

Activity

- > Biologically active polysaccharide capable of enhancing the body's natural defenses.
- > As a natural substance it optimizes the potential of the immune system without disrupting its balance.

Properties

- > Consists of a naturally occurring insoluble polysaccharide called pleuran.

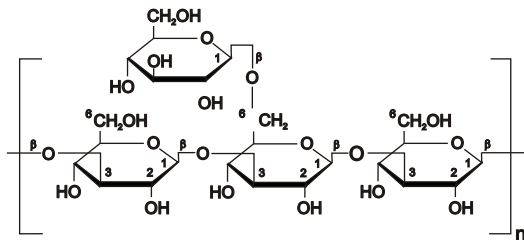


Fig. 1: Molecular structure of pleuran

- > Pleuran is the name given to beta-(1,3/1,6)-D-glucan isolated from the *Pleurotus ostreatus* (oyster mushroom).
- > Pleuran is found in the cell wall of the oyster mushroom, where it is covered by indigestible lipids and proteins.
- > Separating pleuran from the cell wall without damaging its natural branching structure is essential in guaranteeing its activity.

- > Eliminating lipids and proteins is also important for immune cells to easily recognize its structure.
- > The patented technology effectively eliminates lipids and proteins without affecting its natural structure.

Mode of Action

- > Safe and effective taken orally or applied topically.
- > Taken orally, it binds to immune cells concentrated in areas called Peyer's patches located in the small intestine.
- > Applied topically, it activates keratinocytes and specialized immune cells of the skin, called Langerhans Cells, which are found in the epidermis.
- > The branching structure of pleuran beta-glucan is easily detected by immune cells, as these present on their surface specific receptors.
- > Activated immune cells initiate a cascade of immune activities to protect the body against viral, bacterial, fungal, and parasitic infections.
- > By activating epidermal cells, it also enhances the skin's natural repair processes.



Imunoglukan P4H® is a versatile ingredient available in three forms

P

in powder form for capsules and tablets

DH

in liquid form for drinks, syrups and dairy products

CH

in refined liquid form for cosmetic products

Dietary Supplements

- > Reinforcement of the immune system in periods of increased risk of infections.
- > Supplements for athletes after intense training periods.
- > Adjuvant to antibiotics and vaccines.

Functional Foods

- > In its different forms it is a versatile ingredient easily added to a variety of foods.
- > Dairy products, sports drinks, and energy bars are just a few of the products that can add immunity functionality.



Cosmetics

- > As a completely natural product, it is ideal for facial care, anti-aging, and sun care creams.
- > Particularly suitable for oral-care products.
- > Skin healing and regeneration for dermal-care applications.

Animal Health

- > Lowers risk of infections in animals that need to endure continuous physical strain.
- > Decreased use of antibiotics or as an adjuvant to antibiotic treatment.

Recommended Dosages

Application	P	DH*	CH
Dietary Supplements (daily)	1mg-3mg/kg	0.1ml-0.3ml/kg	-
Functional Foods	10mg-100mg/unit	1ml-10ml/unit	-
Cosmetics	-	-	2% - 10%

* Standard concentration

Storage: Stability Period: 24 months
Store in a cool, dry place away from the light
Temperature 3°-35°C for DH and CH grades and 0°-35°C for P grade

Packaging: P (Powder): 2, 5, 10 kg, DH (Liquid): 10 kg, CH (Cosmetic): 2, 5, 10 kg

Safety: Imunoglukan P4H® is a completely safe and harmless substance with no particular hazards known and no overdose risks identified.

Certification: BSE-free, GMO-free, and Allergen-free

All information provided by Pleuran, s.r.o. is based on current knowledge and experience. Pleuran, s.r.o. reserves the right to make changes to all its documentation based on new developments.



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