

# Plant Stimulating Peptides



## Features of Plant Stimulating Peptides

- Increases Root, Plant Growth & Vigor (LRHPP)
- Aids in overcoming crop stress
- Improves nutrient use efficiency (NUE)
- Enhances natural plant defense





# Plant Stimulating Peptides



**HELLO NATURE** is one of the worlds largest producers of biostimulants for agriculture based on 100% vegetal protein hydrolysates. Starting from raw vegetal materials of the highest quality and through an exclusive proprietary manufacturing process , **HELLO NATURE** offers a wide range of biostimulants of vegetal origin.

**PSP's** are produced using **HELLO NATURE's** Proprietary Double-Enzymatic Process (PDEP) to produce protein hydrolysates containing a high concentration of amino acids in soluble Plant Stimulating Peptide chains.

**PSP's**, unlike free amino acids, have a more prominent, assured, and natural biostimulant effect. These peptides are made available to the plant at the right balance and in ready-isomer-form for the plant to quickly absorb and utilize.

**PSP's** strength originates from the innovative production process that preserves even the weakest amino acids in the peptide chain (such as Tryptophan) and maintains the peptides' composition unaltered.

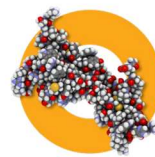
**HELLONATURE's** Vegetal Protein Hydrolysate (VPH) biostimulants contain amino acids in soluble peptide form with less than 4% free amino acids. Only the highest quality, Non-GMO plant-derived proteins are utilized in our proprietary production process. Our VPH biostimulants have been proven to consistently enhance nutrient uptake and abiotic stress tolerance of agricultural and horticultural crops. And they have been found to reliably improve carbon and nitrogen metabolism, growth, yield, and fruit quality.

## Aminogram Guaranteed.

There are 18 interdependent amino acids essential for plant growth. The absence of one can block the synthesis of others. Itaipollina guarantees the presence of these 18 amino acids in our Vegetal Protein Hydrolysate biostimulant products.

### AMINOGRAM

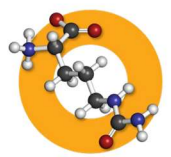
Alanine	4.6%
Arginine	7.0%
Aspartic Acid	11.7%
Cysteine	1.0%
Glutamic Acid	18.0%
Glycine	4.5%
Histidine	2.8%
Isoleucine	4.8%
Leucine	8.0%
Lysine	6.0%
Methionine	1.5%
Phenylalanine	5.2%
Proline	5.1%
Serine	5.5%
Threonine	4.1%
Tryptophan	1.2%
Tyrosine	3.9%
Valine	5.1%



Amino Acids

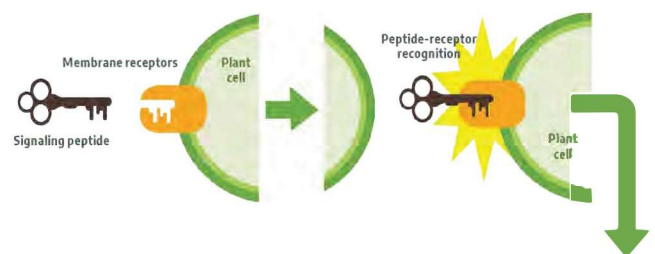


Peptide



Protein

**Peptides** are chains formed by 2 to 50 amino acids.



Improvement of lateral root development  
Enhancement of nutrient uptake and assimilation  
Increase of stress resistance of the plant



**Activation of cell response**

## Ready to Use - Right Structure - Right Balance



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