



What is the GZA Complex?

BioSinc contains the extensively researched, patented GZA biostimulant complex, which includes: bioactive humic and fulvic acids, auxins, zeatin, glycine betaine, and salicylic acid. All of the components in the GZA complex work together to benefit plants. However, each component has a specific role:

Bioactive Humic & Fulvic Acids

- Humic and fulvic acids are major components of soil organic matter that directly impact soil physical and chemical properties. The compounds are carbon based molecules that can greatly improve soil fertility. Timac's humic and fulvic acids are different than other products on the market because we do many extractions to isolate very specific particle sizes that are highly available to the plant yet stable in the soil.
 - *Main benefit: Improves nutrient and water availability in the soil*

Auxins and Zeatin

- Auxins are a class of plant growth hormones. These are important for plant growth at the cellular level. The main auxin we add to the GZA Complex is Zeatin, a precursor to plant growth hormones that drives root growth.
 - *Main benefit: Stimulates the root system to encourage more root growth*

Glycine Betaine

- Glycine betaine is a natural chemical compound with both negative and positive charge sites. Plants (like seaweed) naturally make these compounds to protect themselves against water and temperature stress. When plants accumulate glycine betaine, they retain extra water in their cells, which protects from dehydration.
 - *Main benefit: Environmental anti-stress effect*

Salicylic Acid

- This is another plant hormone that plays roles in plant growth and development, photosynthesis, transpiration, and nutrient uptake and transport. It is also very important for sending out signals that help the plant's defense against pathogens.
 - *Main benefit: Plant defense*

