

FEATURED PRODUCT

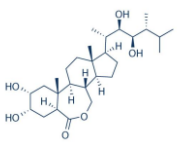
EPIBRASSINOLIDE

INTRODUCTION:

Epibrassinolide is a highly active plant growth regulator (PGR) and a synthetic analog of naturally occurring brassinosteroids, which are plant hormones essential for growth and development. It is used in very low concentrations and is valued for improving crop performance under both normal and stress conditions.

APPLICATIONS: It is widely used on:

- Fruits: such as grapes, apples, citrus, mangoes, and strawberries.
- Vegetables: such as tomatoes, peppers, cucumbers, and leafy greens.
- Field crops: including rice, wheat, corn, cotton, soybean, and canola.
- Ornamentals and flowers.

IUPAC Name	3aS,5S,6R,7aR,7bS,9aS,10R,12aS,12bS)-10-[(2S,3R,4R,5R)-3,4-dihydroxy-5,6-dimethylheptan-2-yl]-5,6-dihydroxy-7a,9a-dimethylhexadecahydro-3H-benzo[c]indeno[5,4-e]oxepin-3-one; 24-epibrassinolide; 22R,23R,24R-2α,3α,22,23-Tetrahydroxy-B-homo-7-oxa-5α-ergostan-6-one
Synonyms	24-epi-Brassinolide; 24-Epibrassinolide (EBL)
CAS no.	78821-43-9
EINECS no.	639-387-1
Molecular formula	$C_{28}H_{48}O_6$
Molecular weight	480.68
Structure	

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SPECIFICATIONS:

Test	Unit	Specification
Appearance	-	White or off-white color powder
Moisture Content	-	Max 1.0 %
pH	-	5.0 – 8.0
Purity	-	Min 90.0 %

KEY BENEFITS:

- Promotes cell division and cell elongation.
- Improves seed germination and seedling vigor.
- Enhances root and shoot growth.
- Increases flowering, fruit set, and overall yield.
- Improves crop quality, including size, color, and sugar content.
- Helps plants tolerate drought, heat, cold, salinity, and transplant stress.
- Improves nutrient uptake and photosynthetic efficiency.

APPLICATION METHOD:

- Primarily applied as a foliar spray.
- Can also be used for seed treatment or root dipping, depending on the crop.
- Effective at extremely low doses, typically measured in parts per billion (ppb) or parts per million (ppm)

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TYPICAL FORMULATIONS:

0.01% SP (Soluble Powder)	For foliar spray; suitable for broad-acre crops and vegetables
0.02% SP (Soluble Powder)	Higher-concentration formulation for intensive horticulture
Technical Grade (90–95%+)	For custom formulation development by downstream manufacturers
Liquid Concentrate (EC/SC)	Ready-to-dilute formats for foliar and fertigation applications
Seed Treatment Suspension	Concentrated slurry for pre-sowing seed coating

STORAGE:

- Store in a tightly closed container in a cool (below 25°C), dry, and well-ventilated location
- Keep away from direct sunlight and sources of heat or ignition
- Shelf life: 24 months when stored under recommended conditions
- Keep away from food, beverages, and animal feed

PACKING:

1 Kg aluminum foil bags, packed in fiber drums (25 kg net)

ICS offers Epibrassinolide on commercial scales and welcomes enquiries. No matter the quantity you need, our exceptional quality & services will make ICS your supplier of choice. For additional information or Safety Data Sheet (SDS), please contact us at- info@itsusainc.com or Phone# 713-337-0152.

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