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Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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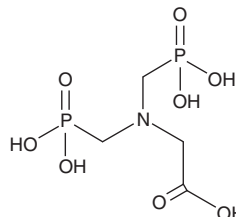
PRODUCT INFORMATION



Glyphosine

Item No. 14299

CAS Registry No.: 2439-99-8
Formal Name: N,N-bis(phosphonomethyl)-glycine
Synonyms: CP 41,845, Glycine Methyl Phosphonic Acid, NSC 18468
MF: C₄H₁₁NO₈P₂
FW: 263.1
Purity: ≥98%
Supplied as: A solid
Storage: -20°C
Stability: ≥4 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

Glyphosine is supplied as a solid. Aqueous solutions of glyphosine can be prepared by directly dissolving the solid in aqueous buffers. The solubility of glyphosine in PBS (pH 7.2) is approximately 5 mg/ml. We do not recommend storing the aqueous solution for more than one day.

Description

Glyphosine is an organophosphate plant growth regulator.¹ It decreases chlorophyll production in new fronds of *L. gibba* when used at a concentration of 500 μM.¹ Glyphosine has been used as a sugarcane ripener.² It also increases the T cell response to an insulin B chain autoantigenic peptide corresponding to amino acids 9-23 of human insulin (EC₅₀ = 70.6 nM) and delays the onset of diabetes in non-obese diabetic (NOD) mice when administered at a dose of 80 mg/kg per day.³

References

1. Slovin, J.P. and Tobin, E.M. Glyphosine, a plant growth regulator, affects chloroplast membrane proteins. *Biochim. Biophys. Acta* **637(1)**, 177-184 (1981).
2. Samuels, G. and Vélez-Ramos, A. Field experiments with Polaris as a chemical ripener of sugarcane in Puerto Rico, 1971-72. *J. Agr. U. Puerto Rico* **61(2)**, 242-249 (1977).
3. Michels, A.W., D.A., O., Zhang, L., et al. Structure-based selection of small molecules to alter allele-specific MHC class II antigen presentation. *J. Immunol.* **187(11)**, 5921-5930 (2011).

WARNING

THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA

This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the [complete](#) Safety Data Sheet, which has been sent via email to your institution.

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