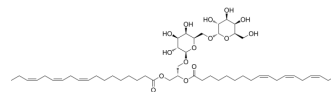


DGDG

Cat. No.:	HY-143693
CAS No.:	63142-69-8
Molecular Formula:	C ₅₁ H ₈₄ O ₁₅
Molecular Weight:	937.2
Target:	Liposome
Pathway:	Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	DGDG, a chloroplast lipid, is a bilayer-forming lipid. DGDG is important for photosynthesis, and can be used for drug delivery [1].
In Vitro	Apart from facilitating the photosynthesis light reaction in the thylakoid membrane, DGDG is important for maintaining chloroplast morphology and for plant survival under abiotic stresses such as phosphate starvation and freezing. During phosphate limitation, the amounts of DGDG increase in the plastids of plants, and DGDG is exported to extraplastidial membranes to replace phospholipids[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Hsou-Min Li, et al. Chloroplast Galactolipids: The Link Between Photosynthesis, Chloroplast Shape, Jasmonates, Phosphate Starvation and Freezing Tolerance. *Plant Cell Physiol.* 2018 Jun 1;59(6):1128-1134.

Caution: Product has not been fully validated for medical applications. For research use only.

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