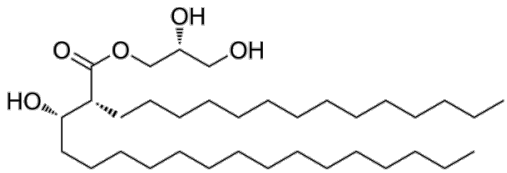
Product Data Sheet

Product Name: (R)-MMG-1
Cat. No.: GC81484

Chemical Properties

Cas. No.	2064030-22-2		
Formula	$C_{35}H_{70}O_5$	M.Wt	570.93
Solubility		Storage	Store at -20°C
General tips	For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20°C for several months.		
Shipping Condition	Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.		
Structure			



Background

(R)-MMG-1 is the R-enantiomer of MMG-1. MMG-1, a monomycoloyl glycerol, is a C-type lectin receptor agonist. MMG-1, a lipid membrane stabilizer, is an immunopotentiator in liposomes. MMG-1 can be used to prepare lipid nanoparticles for drug delivery [1].

References:

[1]. Abhijeet G. Lokras, et al. Cholesterol in mRNA-Lipid Nanoparticles can be Replaced with the Synthetic Mycobacterial Monomycoloyl Glycerol Analogue MMG-1. Advanced Functional Materials. 15 August 2025.

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