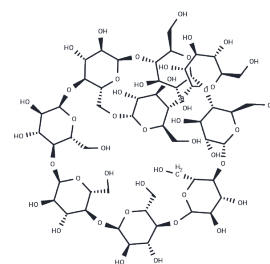


Mal- $\beta$ -CD

## Chemical Properties

CAS No. :	104723-60-6
Formula:	C <sub>54</sub> H <sub>90</sub> O <sub>45</sub>
Molecular Weight:	1459.27
Appearance:	no data available
Storage:	Powder: -20°C for 3 years   In solvent: -80°C for 1 year



## Biological Description

Description	Mal- $\beta$ -CD, a cellular cholesterol modifier, forms a soluble inclusion complex with cholesterol.
Targets(IC50)	Others
In vitro	Mal- $\beta$ -CD effectively extracts cholesterol from cells by forming inclusion complexes. This reduction in cellular cholesterol triggered by Mal- $\beta$ -CD is restored through the introduction of a cholesterol/Mal- $\beta$ -CD inclusion complex, which replenishes the cholesterol levels without inducing cytotoxicity.

## Solubility Information

Solubility	H <sub>2</sub> O: 60.5 mg/mL (41.46 mM), Sonication is recommended. DMSO: 100 mg/mL (68.53 mM), Sonication is recommended. ( $< 1$ mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.6853 mL	3.4264 mL	6.8527 mL
5 mM	0.1371 mL	0.6853 mL	1.3705 mL
10 mM	0.0685 mL	0.3426 mL	0.6853 mL
50 mM	0.0137 mL	0.0685 mL	0.1371 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

## Reference

Okada Y, et al. Effect of 6-O- $\alpha$ -maltosyl- $\beta$  cyclodextrin and its cholesterol inclusion complex on cellular cholesterol levels and ABCA1 and ABCG1 expression in mouse mastocytoma P-815 cells. Carbohydr Res. 2012 Aug 1;357:68-74.

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Tel:781-999-4286    E\_mail:info@targetmol.com    Address:36 Washington Street,Wellesley Hills,MA 02481