Mal-β-CD

Cat. No.:	HY-18593			
CAS No.:	104723-60-6			
Molecular Formula:	C ₅₄ H ₉₀ O ₄₅			
Molecular Weight:	1459.27			
Target:	Biochemical Assay Reagents			
Pathway:	Others			
Storage:	Powder	-20°C	3 years	
		4°C	2 years	
	In solvent	-80°C	2 years	
		-20°C	1 year	

SOLVENT & SOLUBILITY

In Vitro	DMSO : ≥ 100 mg/mL (68.53 mM) H ₂ O : ≥ 60.5 mg/mL (41.46 mM) * "≥" means soluble, but saturation unknown.						
Preparing Stock Solutions		Solvent Mass Concentration	1 mg	5 mg	10 mg		
	Preparing Stock Solutions	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		
	Please refer to the sol	ubility information to select the app	propriate solvent.				
In Vivo	 Add each solvent one by one: PBS Solubility: 100 mg/mL (68.53 mM); Clear solution; Need ultrasonic Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (1.71 mM); Clear solution 						
	3. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (1.71 mM); Clear solution						
	 Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (1.71 mM); Clear solution 						

BIOLOGICAL ACTIVITY					
Description	Mal- β -CD is a cellular cholesterol modifier which can form soluble inclusion complex with cholesterol.				
In Vitro	Mal-β-CD removes cellular cholesterol forming inclusion complexes, while Mal-β-CD-induced lack of cellular cholesterol is				





replenished by the addition of cholesterol/Mal- β -CD inclusion complex (CLM) without cytotoxicity^[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Okada Y, et al. Effect of 6-O-α-maltosyl-β 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.

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

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