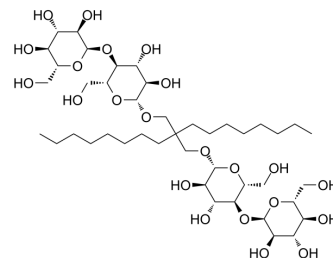


## Decyl maltose neopentyl glycol

Cat. No.:	HY-138887
CAS No.:	1257852-99-5
Molecular Formula:	C <sub>43</sub> H <sub>80</sub> O <sub>22</sub>
Molecular Weight:	949.08
Target:	Others
Pathway:	Others
Storage:	4°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



### SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (105.37 mM; Need ultrasonic)					
	Preparing Stock Solutions	<div><div>Solvent</div><div>Concentration</div></div>	Mass	1 mg	5 mg	10 mg
		1 mM		1.0537 mL	5.2683 mL	10.5365 mL
		5 mM		0.2107 mL	1.0537 mL	2.1073 mL
		10 mM		0.1054 mL	0.5268 mL	1.0537 mL
Please refer to the solubility information to select the appropriate solvent.						
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (2.63 mM); Clear solution					
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: 2.5 mg/mL (2.63 mM); Suspended solution; Need ultrasonic					
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (2.63 mM); Clear solution					

### BIOLOGICAL ACTIVITY

Description	Decyl maltose neopentyl glycol (DMNG) is the neopentyl glycol detergent that does not disrupt the AlkB oligomeric state. AlkB is a nonheme di-iron alkane hydroxylase <sup>[1]</sup> .
In Vitro	Decyl maltose neopentyl glycol (DMNG) preserves the <i>P. putida</i> AlkB (PpAlkB-SII) hydroxylase activity after purification <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

### REFERENCES

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[1]. Hernan Alonso, et al. Characterization and two-dimensional crystallization of membrane component AlkB of the medium-chain alkane hydroxylase system from *Pseudomonas putida* GPo1. *Appl Environ Microbiol.* 2012 Nov;78(22):7946-53.

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

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