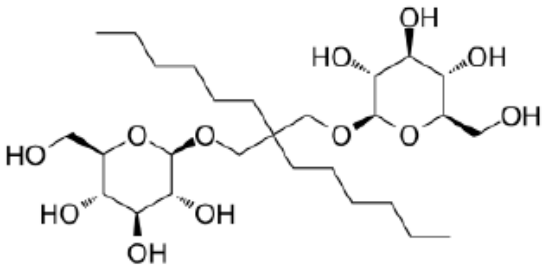
Octyl Glucose Neopentyl Glycol (OGNG)

Cat # NB-19-0054



Description

Octyl glucose neopentyl glycol (OGNG) is a neopentyl glycol detergent that can be used to maintain the stability of membrane proteins[1].

In vitro, the decisive step, in the improvement of Thermotoga maritima (TmPPase) crystal quality came through detergent exchange in to Octyl glucose neopentyl glycol, a neopentyl glycol detergent[1].

Product Information

Codes	NB-19-0054-1G, NB-19-0054-5G, NB-19-0054-25G
Sizes	1g, 5g, 25g
Synonyms	2,2-dihexylpropane-1,3-bis-β-D-glucopyranoside, OGNG
CAS number	1257853-32-9
Formula	$C_{27}H_{52}O_{12}$
Molecular Weight	568.69
Purity (HPLC)	Min 98%
Note	For research use only.

Neo-Biotech
74 rue des Suisses – 92000 Nanterre

Description

In vitro :

Preparing stock solutions (Volume of Solvent) :

Mass / Concentration	*1 mg*	*5 mg*	*10 mg*
1 mM	1.7584 mL	8.7921 mL	17.5843 mL
5 mM	0.3517 mL	1.7584 mL	3.5169 mL
10mM	0.1758 mL	0.8792 mL	1.7584 mL

DMSO : 100 mg/mL (175.84 mM; Need ultrasonic)

Please refer to the solubility information to select the appropriate solvent.

In vitro :

1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
   Solubility: ≥ 5 mg/mL (8.79 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 5 mg/mL (8.79 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 5 mg/mL (8.79 mM); Clear solution

References

[1]. Juho Kellosalo, et al. Crystallization and preliminary X-ray analysis of membrane-bound pyrophosphatases. Mol Membr Biol. 2013 Feb;30(1):64-74.
[2]. Muhammad Ehsan, et al. New Malonate-Derived Tetraglucoside Detergents for Membrane Protein Stability. ACS Chem Biol. 2020 Jun 19;15(6):1697-1707.

For reference only
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