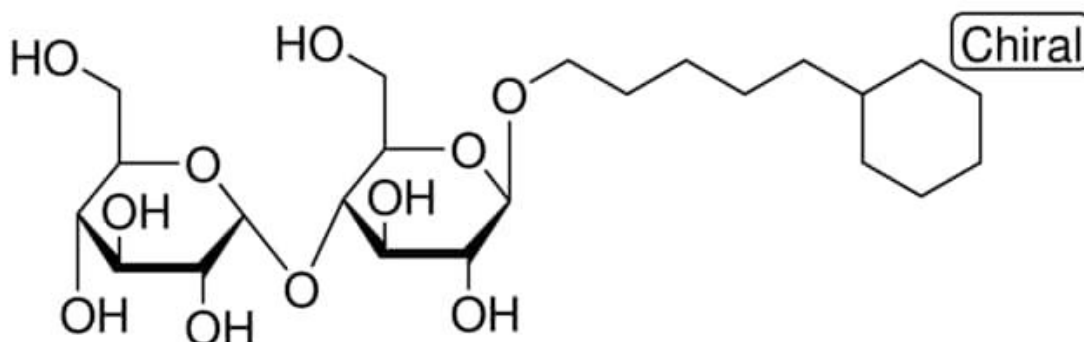


5-Cyclohexyl-1-Pentyl- β -D-Maltoside (CYMAL-5)

Cat # NB-19-0070-1G size: 1g

Cat # NB-19-0070-5G size: 5g

Cat # NB-19-0070-25G size: 25g



Product Information

Batch No.:	ST9621
Chemical Name:	5-Cyclohexyl-1-Pentyl- β -D-Maltoside, CYMAL-5
Batch Molecular Formula:	C ₂₈ H ₅₈ O ₉
Batch Molecular Weight:	494.5
CAS No.:	[250692-65-0]
Physical Appearance:	White to off-white powder
Storage:	Desiccate at -20°C

Solvent and solubility

≥ 20% (in water at 20°C)

Biological activity

5-Cyclohexylpentyl β -D-maltoside is a detergent for the purification and crystallization of membrane-bound proteins in native structure. It is more hydrophobic and has a higher critical micelle concentration (CMC) than the corresponding linear chain analog (C23).

References

1. Crystallization of membrane proteins. C Ostermeier et al. Current opinion in structural biology, 7(5), 697-701 (1997-11-05) Davies and Watkins (1982) Brain Res 235:378

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Analytical data

<u>TEST</u>	<u>Specification</u>
CMC:	(H ₂ O) ~ 2.4-5.0 mM(2) (0.12%)
CMC:	(0.15M NaCl) ~ 2.0 mM(2)
Aggregation Number:	(H ₂ O) ~ 47(2)
dn/dc:	0.1521 ml/g
Purity:	≥ 99% (by HPLC analysis)
Percent Anomer:	< 4 (HPLC)
Percent Alcohol:	< 0.005 Cyclohexylpentanol (HPLC)
pH:	5-8 (1% solution in water)
Conductance:	< 40 μS (10% solution in water)
Fluorescence:	<10% (0.1% solution in water at 345nm)
Absorbance of a 1% solution in water	225 nm: < 0.1 260 nm: < 0.06 280 nm: < 0.04 340 nm: < 0.02

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