



Product Information

(5-Cyclohexylpentyl)- β -D-maltoside, Purity $\geq$ 95%

Cat. No.: X25-01-WXX531

Size: 500 mg; 1 g; 2 g; 5 g

MDL: MFCD09750882

CAS Number: 250692-65-0

Compound CID: 5327073

Synonym: CYMAL-5; 250692-65-0; Cyclohexyl-pentyl-maltoside;

(2*R*,3*R*,4*S*,5*S*,6*R*)-2-(((2*R*,3*S*,4*R*,5*R*,6*R*

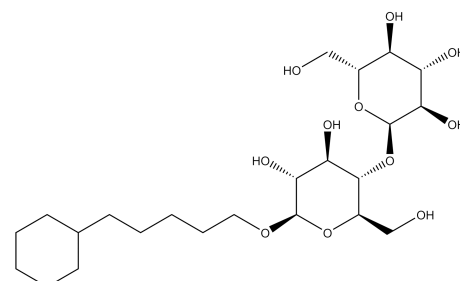
)-6-((5-cyclo

hexylpentyl)oxy)-4,5-dih

ydroxy-2-(hydroxymethyl)tetrahydro-2*H*

-pyran-3-yl)oxy)-6-(hydroxymethyl)tetrahydro-2*H*-pyran-3,4,5-triol

This product is for research use only and is not intended for diagnostic use.



Product Information

Description	(5-Cyclohexylpentyl)- β -D-maltoside is a detergent for membrane-bound proteins with a high CMC composed of 5-cyclohexylpentyl with beta-maltose.
Molecular Weight	494.57
Molecular Formula	C ₂₃ H ₄₂ O ₁₁
IUPAC Name	(2 <i>R</i> ,3 <i>R</i> ,4 <i>S</i> ,5 <i>S</i> ,6 <i>R</i>)-2-[(2 <i>R</i> ,3 <i>S</i> ,4 <i>R</i> ,5 <i>R</i> ,6 <i>R</i>)-6-(5-cyclohexylpentoxy)-4,5-dihydroxy-2-(hydroxymethyl)oxan-3-yl]oxy-6-(hydroxymethyl)oxane-3,4,5-triol
InChI	InChI=1S/C23H42O11/c24-11-14-16(26)17(27)19(29)23(32-14)34-21-15(12-25)33-22(20(30)18(21)28)31-10-6-2-5-9-13-7-3-1-4-8-13/h13-30H,1-12H2/t14-,15-,16-,17+,18-,19-,20-,21-,22-,23-/m1/s1
InChI Key	RVTGFZGNOSKUDA-ZNGNCRBCSA-N
Canonical SMILES	C1CCC(CC1)CCCCCOC2C(C(C(C(O2)CO)OC3C(C(C(C(O3)CO)O)O)O)O)O
Isomeric SMILES	C1CCC(CC1)CCCCC[C@H]2[C@@H]([C@H]([C@@H]([C@H](O2)CO)O[C@@H]3[C@@H]([C@H]([C@@H]([C@H](O3)CO)O)O)O)O)O
Form	Solid
Purity	$\geq$ 95%
Applications	(5-Cyclohexylpentyl)- β -D-maltoside is widely used in biochemistry and biotechnology, especially in the study of membrane proteins.



Storage

Store at -20°C.
