CD BioGlyco

SUITE 201, 17 Ramsey Road, Shirley, NY 11967, USA

Tel: 1-631-637-6119 | Email: info@bioglyco.com

Product Information

2-*O*-hexadecanoyl-3-*O*-(2,4*S*,6*S*-trimethyl-2*E*-docosenoyl)-6-*O*-(2*R*,4*S*,6*S*-trimethyl-3*R*-hydroxy-tetracosanoyl)-2'-*O*-(2*R*,4*S*,6*S*-trimethyl-3*R*-hydroxy-tetracosa

Cat. No.: X26-02-ZQ4864

Size: 1 mg; 10 mg; 25 mg; 100 mg

Compound CID: 52929979

Synonym:

PAT16(22:1(2E)(2Me,4Me[S],6Me[S])/24:0(2Me[R],3OH[R],4Me[S],6Me[S])/24:0(2Me[R],3OH[R],4Me[S],6Me[S])/22:1(2E)(2Me,4Me[S],6Me[S]))

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

Product Information

Description	Featuring hydroxylated branches at both the 6 and 2' positions, this PAT allows for the study of regiospecific hydrogen bonding on the trehalose core. It provides vital information on the molecular recognition of specialized glycolipids.
Molecular Weight	2123.4
Molecular Formula	$C_{132}H_{248}O_{18}$
IUPAC Name	[(3*R*,5*R*,6*R*)-5-hexadecanoyloxy-3-hydroxy-6-[(2*R*,3*S*,5*S*)-4-hydroxy-6-(hydroxymethyl)-3-[(2*S*,3*S*,4*S*,6*S*)-3-hydroxy-2,4,6-trimethyltetracosanoyl]oxy-5-[(*E*,4*S*,6*S*)-2,4,6-trimethyldocos-2-enoyl]oxyoxan-2-yl]oxy-4-[(*E*,4*S*,6*S*)-2,4,6-trimethyldocos-2-enoyl]oxyoxan-2-yl]methyl (2*S*,3*S*,4*S*,6*S*)-3-hydroxy-2,4,6-trimethyltetracosanoate
InChI	InChI=1S/C132H248O18/c1-18-23-28-33-38-43-48-53-57-59-64-68-73-78-83-88-93-106(8)98-110(12)119(135)114(16)129(141)143-103-117-121(137)124(148-128(140)113(15)101-109(11)97-105(7)92-87-82-77-72-67-63-56-51-46-41-36-31-26-21-4)126(146-118(134)95-90-85-80-75-70-61-52-47-42-37-32-27-22-5)132(145-117)150-131-125(149-130(142)115(17)120(136)111(13)99-107(9)94-89-84-79-74-69-65-60-58-54-49-44-39-34-29-24-19-2)122(138)123(116(102-133)144-131)147-127(139)112(14)100-108(10)96-104(6)91-86-81-76-71-66-62-55-50-45-40-35-30-25-20-3/h100-101,104-111,114-117,119-126,131-133,135-138H,18-99,102-103H2,1-17H3/b112-100+,113-101+/t104-,105-,106-,107-,108-,109-,110-,111-,114-,115-,116?,117?,119-,120-,121+,122?,123+,124?,125-,126+,131+,132+/m0/s1
InChI Key	DFHKCSYKEMQNIJ-GRIGHBBUSA-N
Canonical SMILES	CCCCCCCCCCCCCCCCCC[C@H](C)C[C@H](C)[C@@H]([C@H](C)C(=O)OCC1[C@H](C([C@H]

SUITE 201, 17 Ramsey Road, Shirley, NY 11967, USA
Tel: 1-631-637-6119 | Email: info@bioglyco.com

	([C@H](O1)O[C@@H]2[C@H](C([C@@H](C(O2)CO)OC(=O)/C(=C/[C@@H](C)C[C@@H](C)CCCCCCCCCCCCCCC)/C)O)OC(=O)[C@@H](C)[C@H]([C@@H](C)C[C@@H](C)CCCCCCCCCCCCCCCCCC)O)OC(=O)CCCCCCCCCCCCCCCC)OC(=O)/C(=C/[C@@H](C)C[C@@H](C)CCCCCCCCCCCCCCCC)/C)O)O
Source	Chemical synthesis
Form	Solid or liquid
Purity	≥90%
Identity	Confirmed by NMR/HPLC/MS.
Stability	The product is stable for one year when stored at the recommended temperature in lyophilized powder.
Quality Level	Research level
Applications	2-*O*-hexadecanoyl-3-*O*-(2,4*S*,6*S*-trimethyl-2*E*-docosenoyl)-6-*O*-(2*R*,4*S*,6*S*-trimethyl-3*R*-hydroxy-tetracosanoyl)-2'-*O*-(2*R*,4*S*,6*S*-trimethyl-3*R*-hydroxy-tetracosanoyl)-4'-*O*-(2,4*S*,6*S*-trimethyl-2*E*-docosenoyl)-α,α-trehalose can be used to evaluate the structural stability of biomimetic bilayers rich in hydroxylated tetracosenoyl chains.
Storage	Store at -20ºC.