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

Cat. No.: X26-02-ZQ5065

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

Compound CID: 52930180

Synonym:

PAT16(25:1(2E)(2Me,4Me[S],6Me[S])/25:1(2E)(2Me,4Me[S],6Me[S])/24:0(2Me[R],3OH[R],4Me[S],6Me[S])/24:1(2E)(2Me,4Me[S],6Me[S]))

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

Product Information

Description	This variant combines a hydroxylated branch with dual C25 and a C24 phthienoic acid to examine how functionalized sites modify bilayer organization. It is utilized in structural biology to characterize the lipid antigen-binding specificity of host immune proteins.
Molecular Weight	2189.5
Molecular Formula	$C_{138}H_{258}O_{17}$
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-trimethyltetracos-2-enoyl]oxyoxan-2-yl]oxy-4-[(*E*,4*S*,6*S*)-2,4,6-trimethylpentacos-2-enoyl]oxyoxan-2-yl]methyl (*E*,4*S*,6*S*)-2,4,6-trimethylpentacos-2-enoate
InChI	InChI=1S/C138H258O17/c1-18-23-28-33-38-43-48-53-57-61-65-69-73-77-82-87-92-97-111(6)102-115(10)106-119(14)133(144)148-110-124-127(142)130(153-135(146)121(16)108-117(12)104-113(8)99-94-89-84-79-74-70-66-62-58-54-49-44-39-34-29-24-19-2)132(151-125(140)101-96-91-86-81-76-67-52-47-42-37-32-27-22-5)138(150-124)155-137-131(154-136(147)122(17)126(141)118(13)105-114(9)100-95-90-85-80-75-71-64-60-56-51-46-41-36-31-26-21-4)128(143)129(123(109-139)149-137)152-134(145)120(15)107-116(11)103-112(7)98-93-88-83-78-72-68-63-59-55-50-45-40-35-30-25-20-3/h106-108,111-118,122-124,126-132,137-139,141-143H,18-105,109-110H2,1-17H3/b119-106+,120-107+,121-108+/t111-,112-,113-,114-,115-,116-,117-,118-,122-,123?,124?,126-,127+,128?,129+,130?,131-,132+,137+,138+/m0/s1
InChI Key	LZPXFZCXYHWQDE-OPBNFDCFSA-N

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Canonical SMILES	**CCCCCCCCCCCCCCCCCCC[C@H](C)C[C@H](C)/C=C(\C)/C(=O)OCC1[C@H](C([C@H]([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)CCCCCCCCCCCCCCCCCCC)/C)O)OC(=O)[C@@H](C)[C@H]([C@@H](C)C[C@@H](C)CCCCCCCCCCCCCCCCCCC)O)OC(=O)CCCCCCCCCCCCCCC)OC(=O)/C(=C/[C@@H](C)C[C@@H](C)CCCCCCCCCCCCCCCCCCC)/C)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	**Used to examine how positional isomerism of hydroxyl groups affects the recognition of glycolipids by the immune system.**
Storage	**Store at -20ºC.**