CD BioGlyco

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

Cat. No.: X26-02-ZQ5115

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

Compound CID: 52930230

Synonym:

PAT16(25:1(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])/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 PAT variant utilizes two hydroxylated branches and a C24 phthienoic acid. It helps identify how specific oxygenation patterns influence the formation of lipid rafts on the bacterial cell surface.
Molecular Weight	2193.5
Molecular Formula	$C_{137}H_{258}O_{18}$
IUPAC Name	[(2*R*,3*R*,5*R*)-3-hexadecanoyloxy-5-hydroxy-2-[(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-6-[[(2*S*,3*S*,4*S*,6*S*)-3-hydroxy-2,4,6-trimethyltetracosanoyl]oxymethyl]oxan-4-yl] (*E*,4*S*,6*S*)-2,4,6-trimethylpentacos-2-enoate
InChI	InChI=1S/C137H258O18/c1-18-23-28-33-38-43-48-53-57-61-65-68-72-77-82-87-92-97-110(7)102-114(11)106-118(15)133(145)153-129-126(142)122(108-148-134(146)119(16)124(140)115(12)103-111(8)98-93-88-83-78-73-69-63-59-55-50-45-40-35-30-25-20-3)150-137(131(129)151-123(139)100-95-90-85-80-75-66-52-47-42-37-32-27-22-5)155-136-130(154-135(147)120(17)125(141)116(13)104-112(9)99-94-89-84-79-74-70-64-60-56-51-46-41-36-31-26-21-4)127(143)128(121(107-138)149-136)152-132(144)117(14)105-113(10)101-109(6)96-91-86-81-76-71-67-62-58-54-49-44-39-34-29-24-19-2/h105-106,109-116,119-122,124-131,136-138,140-143H,18-104,107-108H2,1-17H3/b117-105+,118-106+/t109-,110-,111-,112-,113-,114-,115-,116-,119-,120-,121?,122?,124-,125-,126+,127?,128+,129?,130-,131+,136+,137+/m0/s1
InChI Key	XYTZZXXZFYLYMZ-FWFQSZKLSA-N
Canonical SMILES	CCCCCCCCCCCCCCCCCCC[C@H](C)C[C@H](C)/C=C(\C)/C(=O)OC1[C@H]([C@H](OC([C@H]1O)COC(=O)[C@@H](C)[C@H]([C@@H](C)C[C@@H](C)CCCCCCCCCCCCCCCCCCC)O)O[C@@

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	H]2[C@H](C([C@@H](C(O2)CO)OC(=O)/C(=C/[C@@H](C)C[C@@H](C)CCCCCCCCCCCCCCCCCC)/C)O)OC(=O)[C@@H](C)[C@H]([C@@H](C)C[C@@H](C)CCCCCCCCCCCCCCCCCCC)O)OC(=O)CCCCCCCCCCCCCCC
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.