

Product Information

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

Cat. No.: X26-02-ZQ4845

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

Compound CID: 52929960

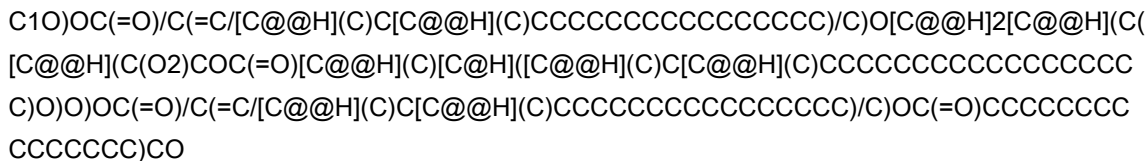
Synonym:

PAT16(22:1(2E)(2Me,4Me[S],6Me[S])/24:0(2Me[R],3OH[R],4Me[S],6Me[S])/22:1(2E)(2Me,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 incorporates a longer C24 phthienoic acid at the 4'-position alongside the 6-position hydroxylated chain. It serves as a high-purity standard for researching the biophysical impact of chain length heterogeneity on cell wall stability.
Molecular Weight	2105.4
Molecular Formula	C ₁₃₂ H ₂₄₆ O ₁₇
IUPAC Name	[(3R,5R,6R)-5-hexadecanoyloxy-3-hydroxy-6-[(2R,3S,5S)-4-hydroxy-6-(hydroxymethyl)-3-[(E,4S,6S)-2,4,6-trimethyldocos-2-enoyl]oxy-5-[(E,4S,6S)-2,4,6-trimethyltetracos-2-enoyl]oxyoxan-2-yl]oxy-4-[(E,4S,6S)-2,4,6-trimethyldocos-2-enoyl]oxyoxan-2-yl]methyl (2S,3S,4S,6S)-3-hydroxy-2,4,6-trimethyltetracosanoate
InChI	InChI=1S/C132H246O17/c1-18-23-28-33-38-43-48-53-57-59-64-68-73-78-81-86-91-105(6)96-109(10)100-113(14)127(138)146-123-117(103-133)143-131(125(122(123)137)148-129(140)115(16)102-11(12)98-107(8)93-88-83-77-72-67-63-56-51-46-41-36-31-26-21-4)149-132-126(145-119(134)95-90-85-80-75-70-61-52-47-42-37-32-27-22-5)124(147-128(139)114(15)101-110(11)97-106(7)92-87-82-76-71-66-62-55-50-45-40-35-30-25-20-3)121(136)118(144-132)104-142-130(141)116(17)120(135)12(13)99-108(9)94-89-84-79-74-69-65-60-58-54-49-44-39-34-29-24-19-2/h100-102,105-112,116-118,120-126,131-133,135-137H,18-99,103-104H2,1-17H3/b113-100+,114-101+,115-102+/t105-,106-,107-,108-,109-,110-,111-,112-,116-,117?,118?,120-,121+,122?,123+,124?,125-,126+,131+,132+/m0/s1
InChI Key	KCUBSNVWWQMCFI-IDUSSCCISA-N
Canonical SMILES	CCCCCCCCCCCCCCCC[C@H](C)C[C@H](C)/C=C(\C)/C(=O)O[C@@H]1C(O[C@@H]([C@H](



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-(2,4S,6S-trimethyl-2E-docosenoyl)-6-O-(2R,4S,6S-trimethyl-3R-hydroxy-tetracosanoyl)-2'-O-(2,4S,6S-trimethyl-2E-docosenoyl)-4'-O-(2,4S,6S-trimethyl-2E-tetracosenoyl)-α,α-trehalose can be used to investigate the lateral packing of glycolipids containing mixed-length branched chains and specific hydroxylation.
Storage	Store at -20°C.