

Product Information

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

Cat. No.: X26-02-ZQ4868

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

Compound CID: 52929983

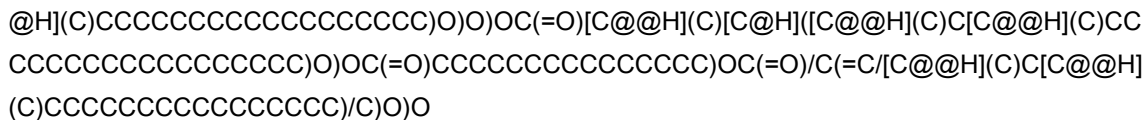
Synonym:

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

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

Product Information

Description	This tri-hydroxylated PAT variant features three hydroxyphthioceranic acid branches to maximize the potential for polar interactions in the cell wall. It is used to study the role of localized hydrogen bonding in stabilizing the pathogen surface.
Molecular Weight	2169.4
Molecular Formula	C ₁₃₄ H ₂₅₄ O ₁₉
IUPAC Name	[(3R,5R,6R)-5-hexadecanoyloxy-3-hydroxy-6-[(2R,3S,5S)-4-hydroxy-6-(hydroxymethyl)-3,5-bis[(2S,3S,4S,6S)-3-hydroxy-2,4,6-trimethyltetracosanoyl]oxy]oxan-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/C134H254O19/c1-18-23-28-33-38-43-48-53-57-60-65-69-74-79-84-89-94-106(7)99-110(11)120(137)114(15)130(143)146-104-118-123(140)126(151-129(142)113(14)102-109(10)98-105(6)93-88-83-78-73-68-64-56-51-46-41-36-31-26-21-4)128(149-119(136)97-92-87-82-77-72-63-52-47-42-37-32-27-22-5)134(148-118)153-133-127(152-132(145)116(17)122(139)112(13)101-108(9)96-91-86-81-76-71-67-62-59-55-50-45-40-35-30-25-20-3)124(141)125(117(103-135)147-133)150-131(144)115(16)121(138)111(12)100-107(8)95-90-85-80-75-70-66-61-58-54-49-44-39-34-29-24-19-2/h102,105-112,114-118,120-128,133-135,137-141H,18-101,103-104H2,1-17H3/b113-102+/t105-,106-,107-,108-,109-,110-,111-,112-,114-,115-,116-,117?,118?,120-,121-,122-,123+,124?,125+,126?,127-,128+,133+,134+/m0/s1
InChI Key	UUDFSZPLYNTSEJ-FKESKTDQSA-N
Canonical SMILES	CCCCCCCCCCCCCCCC[C@H](C)C[C@H](C)[C@@H]([C@H](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@H](C)[C@H]([C@@H](C)C[C@



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-(2R,4S,6S-trimethyl-3R-hydroxy-tetracosanoyl)-4'-O-(2R,4S,6S-trimethyl-3R-hydroxy-tetracosanoyl)-α,α-trehalose can be used to research the extreme biophysical properties of lipid layers containing triple-hydroxylated branched-chain fatty acids.
Storage	Store at -20°C.