

Product Information

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

Cat. No.: X26-02-ZQ5116

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

Compound CID: 52930231

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])/25:1(2E)(2Me,4Me[S],6Me[S]))

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

Product Information

Description	This lipid organizes two hydroxylated branches with dual C25 phthienoic acids. It is used in biophysical research to study the influence of specific acylation on the fluidity and permeability of the mycobacterial outer membrane.
Molecular Weight	2207.5
Molecular Formula	C ₁₃₈ H ₂₆₀ O ₁₈
IUPAC Name	[(3S,5S,6R)-6-[(2R,3R,5R)-3-hexadecanoyloxy-5-hydroxy-6-[(2S,3S,4S,6S)-3-hydroxy-2,4,6-trimethyltetracosanoyl]oxymethyl]-4-[(E,4S,6S)-2,4,6-trimethylpentacos-2-enoyl]oxyoxan-2-yl]oxy-4-hydroxy-2-(hydroxymethyl)-5-[(2S,3S,4S,6S)-3-hydroxy-2,4,6-trimethyltetracosanoyl]oxyoxan-3-yl] (E,4S,6S)-2,4,6-trimethylpentacos-2-enoate
InChI	InChI=1S/C138H260O18/c1-18-23-28-33-38-43-48-53-57-61-65-68-72-77-82-87-92-97-110(6)102-14(10)106-118(14)133(145)153-129-122(108-139)150-137(131(128(129)144)155-136(148)121(17)126(142)117(13)105-113(9)100-95-90-85-80-75-71-64-60-56-51-46-41-36-31-26-21-4)156-138-132(152-124(140)101-96-91-86-81-76-67-52-47-42-37-32-27-22-5)130(154-134(146)119(15)107-115(11)103-111(7)98-93-88-83-78-73-69-66-62-58-54-49-44-39-34-29-24-19-2)127(143)123(151-138)109-149-135(147)120(16)125(141)116(12)104-112(8)99-94-89-84-79-74-70-63-59-55-50-45-40-35-30-25-20-3/h106-107,110-117,120-123,125-132,137-139,141-144H,18-105,108-109H2,1-17H3/b118-106+,119-107+/t110-,111-,112-,113-,114-,115-,116-,117-,120-,121-,122?,123?,125-,126-,127+,128?,129+,130?,131-,132+,137+,138+/m0/s1

InChI Key	SHDZZEOWTJJKSF-TVDBFNSKSA-N
Canonical SMILES	<chem>CCCCCCCCCCCCCCCC[C@H](C)C[C@H](C)/C=C\C/C(=O)O[C@@H]1C(O[C@@H]([C@H](C1O)OC(=O)[C@@H](C)[C@H]([C@@H](C)C[C@@H](C)CCCCCCCCCCCCCCCC)O)[C@@H]2[C@@H](C([C@@H](C(O2)COC(=O)[C@@H](C)[C@H]([C@@H](C)C[C@@H](C)CCCCCCCCCCCCCCCC)O)O)OC(=O)/C=C/[C@@H](C)C[C@@H](C)CCCCCCCCCCCCCCCC)/C)OC(=O)CCCCCCCCCCCCCCCC)CO</chem>
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	Research tool for studying the influence of hydroxylated fatty acids on the lateral mobility of proteins within bacterial membranes.
Storage	Store at -20°C.
