

Product Information

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

Cat. No.: X26-02-ZQ5067

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

Compound CID: 52930182

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])/26:1(2E)(2Me,4Me[S],6Me[S]))

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

Product Information

Description	Combining an ultra-long C26 tail with a hydroxylated branch and dual C25 chains, this lipid models the structural complexity of highly virulent isolates. It assists in evaluating how lipid architecture protects the pathogen from oxidative and environmental stress.
Molecular Weight	2217.6
Molecular Formula	C ₁₄₀ H ₂₆₂ O ₁₇
IUPAC Name	<p>[(3S,5S,6R)-6-[(2R,3R,5R)-3-hexadecanoyloxy-5-hydroxy-4-[(E,4S,6S)-2,4,6-trimethylpentacos-2-enoyl]oxy-6-[[[(E,4S,6S)-3,3S,4S,6S)-3-hydroxy-2,4,6-trimethyltetracosanoyl]oxyoxan-3-yl](E,4S,6S)-2,4,6-trimethylhexacos-2-enoate</p>
InChI	<p>InChI=1S/C140H262O17/c1-18-23-28-33-38-43-48-53-57-61-64-68-72-76-81-85-90-95-100-114(7)105-118(11)109-122(15)136(147)154-131-125(111-141)151-139(133(130(131)145)156-138(149)124(17)128(143)120(13)107-116(9)102-97-92-87-82-77-73-65-60-56-51-46-41-36-31-26-21-4)157-140-134(153-127(142)103-98-93-88-83-78-69-52-47-42-37-32-27-22-5)132(155-137(148)123(16)110-119(12)106-115(8)101-96-91-86-80-75-71-67-63-59-55-50-45-40-35-30-25-20-3)129(144)126(152-140)112-150-135(146)121(14)108-117(10)104-113(6)99-94-89-84-79-74-70-66-62-58-54-49-44-39-34-29-24-19-2/h108-110,113-120,124-126,128-134,139-141,143-145H,18-107,111-112H2,1-17H3/b121-108+,122-109+,123-110+/t113-,114-,115-,116-,117-,118-,119-,120-,124-,125?,126?,128-,129+,130?,131+,132?,133-,134+,139+,140+/m0/s1</p>
InChI Key	RJEDHMIFIAHKDD-QZYJOAORSA-N



Canonical SMILES	<chem>CCCCCCCCCCCCCCCCCCCC[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)CCCCCCCCCCCCCCCCC)O)[C@@H]2[C@@H](C([C@@H](C(O2)COC(=O)/C=C/[C@@H](C)C[C@@H](C)CCCCCCCCCCCCCCCCC)/C)O)OC(=O)/C=C/[C@@H](C)C[C@@H](C)CCCCCCCCCCCCCCCCC)/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	Used for high-resolution structural analysis of the mycomembrane layers under varying environmental temperatures.
Storage	Store at -20°C.
