

Product Information

2-O-hexadecanoyl-3-O-(2,4S,6S-trimethyl-2E-docosenoyl)-6-O-(2,4S,6S-trimethyl-2E-docosenoyl)-2'-O-(2,4S,6S-trimethyl-2E-hexacosenoyl)-4'-O-(2,4S,6S

Cat. No.: X26-02-ZQ4759

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

Compound CID: 52929874

Synonym:

PAT16(22:1(2E)(2Me,4Me[S],6Me[S])/22:1(2E)(2Me,4Me[S],6Me[S])/26:1(2E)(2Me,4Me[S],6Me[S])/22:1(2E)(2Me,4Me[S],6Me[S]))

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

Product Information

Description	This species features a C26:0 branch at the 2' position to examine the impact of ultra-long chains on membrane fluidity. It is used to investigate the structural adaptations of mycobacteria to intracellular environments.
Molecular Weight	2087.3
Molecular Formula	C ₁₃₂ H ₂₄₄ O ₁₆
IUPAC Name	[(2R,3S,5S)-2-[(2R,3R,5R)-3-hexadecanoyloxy-5-hydroxy-4-[(E,4S,6S)-2,4,6-trimethyldocos-2-enoyl]oxy-6-[(E,4S,6S)-2,4,6-trimethyldocos-2-enoyl]oxymethyl]oxan-2-yl]oxy-4-hydroxy-6-(hydroxymethyl)-5-[(E,4S,6S)-2,4,6-trimethyldocos-2-enoyl]oxyoxan-3-yl] (E,4S,6S)-2,4,6-trimethylhexacos-2-enoate
InChI	InChI=1S/C132H244O16/c1-18-23-28-33-38-43-48-53-57-58-59-60-65-69-74-79-84-89-94-109(9)99-113(13)103-117(17)130(140)147-125-122(136)123(145-128(138)115(15)101-111(11)97-107(7)92-87-82-77-72-67-63-55-50-45-40-35-30-25-20-3)118(104-133)142-131(125)148-132-126(144-120(134)95-90-85-80-75-70-61-52-47-42-37-32-27-22-5)124(146-129(139)116(16)102-112(12)98-108(8)93-88-83-78-73-68-64-56-51-46-41-36-31-26-21-4)121(135)119(143-132)105-141-127(137)114(14)100-110(10)96-106(6)91-86-81-76-71-66-62-54-49-44-39-34-29-24-19-2/h100-103,106-113,118-119,121-126,131-133,135-136H,18-99,104-105H2,1-17H3/b114-100+,115-101+,116-102+,117-103+/t106-,107-,108-,109-,110-,111-,112-,113-,118?,119?,121+,122?,123+,124?,125-,126+,131+,132+/m0/s1

InChI Key	GUPFPQAXRPAOHD-IPEYRFOMSA-N
Canonical SMILES	<chem>CCCCCCCCCCCCCCCCCCCC[C@H](C)C[C@H](C)/C=C(\C)/C(=O)O[C@@H]1[C@H](OC([C@H](C1O)OC(=O)/C(=C/[C@@H](C)C[C@@H](C)CCCCCCCCCCCCCCC)/C)CO)O[C@@H]2[C@@H](C([C@@H](C(O2)COC(=O)/C(=C/[C@@H](C)C[C@@H](C)CCCCCCCCCCCCCCC)/C)O)OC(=O)/C(=C/[C@@H](C)C[C@@H](C)CCCCCCCCCCCCCCC)/C)OC(=O)CCCCCCCCCCCCCCC</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	2-O-hexadecanoyl-3-O-(2,4S,6S-trimethyl-2E-docosenoyl)-6-O-(2,4S,6S-trimethyl-2E-docosenoyl)-2'-O-(2,4S,6S-trimethyl-2E-hexacosenoyl)-4'-O-(2,4S,6S-trimethyl-2E-docosenoyl)-α,α-trehalose can be used to investigate the lateral packing of trehalose lipids with asymmetric hexacosenoyl/docosenoyl chains.
Storage	Store at -20°C.