

## 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-hexacosenoyl)-4'-O

**Cat. No.:** X26-02-ZQ4859

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

**Compound CID:** 52929974

**Synonym:**

PAT16(22:1(2E)(2Me,4Me[S],6Me[S])/24:0(2Me[R],3OH[R],4Me[S],6Me[S])/26:1(2E)(2Me,4Me[S],6Me[S])/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 PAT features a C26 branch at the 2'-position to examine the structural reaches of ultra-long chains within the bilayer. It serves as a tool for studying the biosynthetic regulation of polyacylated trehaloses.

**Molecular Weight** 2133.4

**Molecular Formula** C<sub>134</sub>H<sub>250</sub>O<sub>17</sub>

**IUPAC Name** [(2R,3S,5S)-2-[(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-trimethyldocos-2-enoyl]oxyoxan-2-yl]oxy-4-hydroxy-6-(hydroxymethyl)-5-[(E,4S,6S)-2,4,6-trimethyl-docos-2-enoyl]oxyoxan-3-yl] (E,4S,6S)-2,4,6-trimethylhexacos-2-enoate

**InChI** InChI=1S/C134H250O17/c1-18-23-28-33-38-43-48-53-57-59-60-62-66-70-75-80-85-90-95-109(8)100-113(12)104-117(16)131(142)150-127-124(139)125(148-129(140)115(14)102-111(10)98-107(6)93-88-83-78-73-68-64-55-50-45-40-35-30-25-20-3)119(105-135)145-133(127)151-134-128(147-121(136)97-92-87-82-77-72-63-52-47-42-37-32-27-22-5)126(149-130(141)116(15)103-112(11)99-108(7)94-89-84-79-74-69-65-56-51-46-41-36-31-26-21-4)123(138)120(146-134)106-144-132(143)118(17)122(137)114(13)101-110(9)96-91-86-81-76-71-67-61-58-54-49-44-39-34-29-24-19-2/h102-104,107-114,118-120,122-128,133-135,137-139H,18-101,105-106H2,1-17H3/b115-102+,116-103+,117-104+/t107-,108-,109-,110-,111-,112-,113-,114-,118-,119?,120?,122-,123+,124?,125+,126?,127-,128+,133+,134+/m0/s1

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|-------------------------|--|
| <b>InChI Key</b>        | GLMSZVQNLHWIOG-YPDIATAOSA-N  |
| <b>Canonical SMILES</b> | <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@@H](C)[C@H]([C@@H](C)C[C@@H](C)CCCCCCCCCCCCCCC)O)O)OC(=O)/C(=C/[C@@H](C)C[C@@H](C)CCCCCCCCCCCCCCC)/C)OC(=O)CCCCCCCCCCCC</chem>                            |
| <b>Source</b>           | Chemical synthesis   |
| <b>Form</b>             | Solid or liquid  |
| <b>Purity</b>           | ≥90%   |
| <b>Identity</b>         | Confirmed by NMR/HPLC/MS.  |
| <b>Stability</b>        | The product is stable for one year when stored at the recommended temperature in lyophilized powder.   |
| <b>Quality Level</b>    | Research level   |
| <b>Applications</b>     | 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-hexacosenoyl)-4'-O-(2,4S,6S-trimethyl-2E-docosenoyl)-α,α-trehalose can be used to study the biophysical effects of hexacosenoyl and hydroxylated tetracosenoyl chains on trehalose lipid monolayers. |
| <b>Storage</b>          | Store at -20°C.  |

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