



## 18:0 PE-DTPA

|                    |                    |
|--------------------|--------------------|
| <b>Cat. No.:</b>   | OB0626WX-4527      |
| <b>Appearance:</b> | Powder             |
| <b>Purity:</b>     | >99%               |
| <b>Size:</b>       | 5 mg; 10 mg; 20 mg |

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

### Product Overview

|                       |                                                                                                                                                                                                                                                                                                      |
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| <b>Description</b>    | 18:0 PE-DTPA is a phosphatidylethanolamine derivative functionalized with the diethylenetriaminepentaacetic acid (DTPA) chelating group. The defined phospholipid structure combines a phosphatidylethanolamine backbone with a metal-binding functionality suitable for coordination of metal ions. |
| <b>Synonyms</b>       | 1,2-distearoyl-sn-glycero-3-phosphoethanolamine-N-diethylenetriaminepentaacetic acid, ammonium salt; 1585969-98-7                                                                                                                                                                                    |
| <b>CAS No.</b>        | 1585969-98-7                                                                                                                                                                                                                                                                                         |
| <b>Compound CID</b>   | 147506328                                                                                                                                                                                                                                                                                            |
| <b>Formula</b>        | $C_{55}H_{118}N_9O_{17}P$                                                                                                                                                                                                                                                                            |
| <b>Formula Weight</b> | 1208.55                                                                                                                                                                                                                                                                                              |

### Specification

|                        |                                                                                                                                                                                |
|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Hygroscopic</b>     | No                                                                                                                                                                             |
| <b>Light Sensitive</b> | No                                                                                                                                                                             |
| <b>IUPAC Name</b>      | 2-[2-[bis(carboxymethyl)amino]ethyl]-[2-[carboxymethyl]-2-[2-[[[(2R)-2,3-di(octadecanoyloxy)propoxy]-hydroxyphosphoryl]oxyethylamino]-2-oxoethyl]amino]ethyl]amino]acetic acid |



|                         |                                                                                                                                                                                                                                                                                                                                            |
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| <b>InChI</b>            | InChI=1S/C55H103N4O17P/c1-3-5-7-9-11-13-15-17-19-21-23-25-27-29-31-33-54(69)73-46-48(76-55(70)34-32-30-28-26-24-22-20-18-16-14-12-10-8-6-4-2)47-75-77(71,72)74-40-35-56-49(60)41-58(43-51(63)64)38-36-57(42-50(61)62)37-39-59(44-52(65)66)45-53(67)68/h48H,3-47H2,1-2H3,(H,56,60)(H,61,62)(H,63,64)(H,65,66)(H,67,68)(H,71,72)/t 48-/m1/s1 |
| <b>InChI Key</b>        | FIKFVIUXRLPMC-QSCHNALKSA-N                                                                                                                                                                                                                                                                                                                 |
| <b>Canonical SMILES</b> | CCCCCCCCCCCCCCCCC(=O)OC[C@H](COP(=O)(O)OCCNC(=O)CN(CCN(CCN(CC(=O)O)CC(=O)O)CC(=O)O)CC(=O)O)OC(=O)CCCCCCCCCCCCCCCCC                                                                                                                                                                                                                         |
| <b>Stability</b>        | 1 year                                                                                                                                                                                                                                                                                                                                     |
| <b>Storage</b>          | Storage at -20°C.                                                                                                                                                                                                                                                                                                                          |
| <b>Applications</b>     | 18:0 PE-DTPA provides a functionalized phospholipid reagent for lipid conjugation and molecular labeling studies. It is utilized in the preparation and characterization of lipid-based systems requiring chelator incorporation, supporting research involving lipid modification and membrane-associated applications.                   |