



# SZABO SCANDIC

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## Produktinformation



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### SZABO-SCANDIC HandelsgmbH

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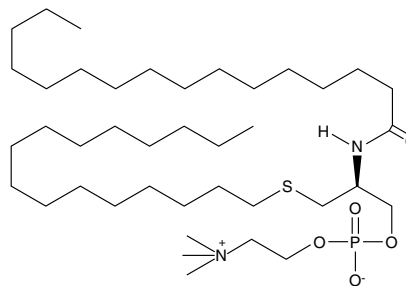
# Product Information



## Thioetheramide-PC

Item No. 62750

**CAS Registry No.:** 116457-99-9  
**Formal Name:** 1,2-dideoxy-1-(S-hexadecyl)thio-2-(N-hexadecanoyl)amino-*sn*-glyceryl-3-phosphorylcholine  
**Synonym:** 1-Palmitylthio-2-palmitoylamido-1,2-dideoxy-*sn*-glycero-3-phosphorylcholine  
**MF:** C<sub>40</sub>H<sub>83</sub>N<sub>2</sub>O<sub>5</sub>PS  
**FW:** 735.1  
**Purity:** ≥95%  
**Stability:** ≥1 year at -20°C  
**Supplied as:** A solution in ethanol



### Laboratory Procedures

For long term storage, we suggest that thioetheramide-PC be stored as supplied at -20°C, preferably in a desiccator. It will be stable for at least one year.

Thioetheramide-PC is supplied as a solution in ethanol. Thioetheramide-PC is sparingly soluble in organic solvents such as DMSO and dimethyl formamide. Further dilutions of the stock solution into aqueous buffers or isotonic saline should be made prior to performing biological experiments. Prior to performing biological experiments, the ethanolic solution should be reconstituted in buffer containing 4.25 mM Triton X-100.<sup>1</sup> Sonicate until a clear solution is obtained. Thioetheramide-PC remains monomeric in aqueous solutions.<sup>1,2</sup> Store aqueous solutions of thioetheramide-PC on ice and use within 12 hours. We recommend making a fresh preparation each day.

Thioetheramide-PC is an analog of phosphatidylcholine containing a thioether at the *sn*-1 position and an amide at the *sn*-2 position. It is a structurally modified phospholipid that functions as a competitive, reversible inhibitor of secretory phospholipase A<sub>2</sub> (sPLA<sub>2</sub>).<sup>1,2</sup> The IC<sub>50</sub> value for thioetheramide-PC is 2 μM at a substrate concentration of 0.5 mM.<sup>1</sup> In addition to binding to the catalytic site of sPLA<sub>2</sub>, thioetheramide-PC also binds to the activator site of this enzyme. The binding of thioetheramide-PC to the activator site is tighter than its binding to the catalytic site. The result of this dual interaction is that at low concentrations thioetheramide-PC may activate phospholipase activity rather than inhibiting it.<sup>1</sup>

### References

1. Yu, L., Deems, R.A., Hajdu, J., *et al.* The interaction of phospholipase A<sub>2</sub> with phospholipid analogues and inhibitors. *J. Biol. Chem.* **265**, 2657-2664 (1990).
2. Plesniak, L.A., Boegeman, S.C., Segelke, B.W., *et al.* Interaction of phospholipase A<sub>2</sub> with thioether amide containing phospholipid analogues. *Biochemistry* **32**, 5009-5016 (1993).

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