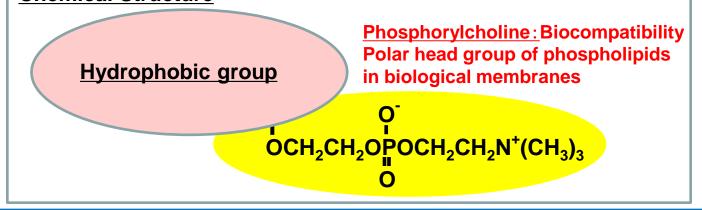
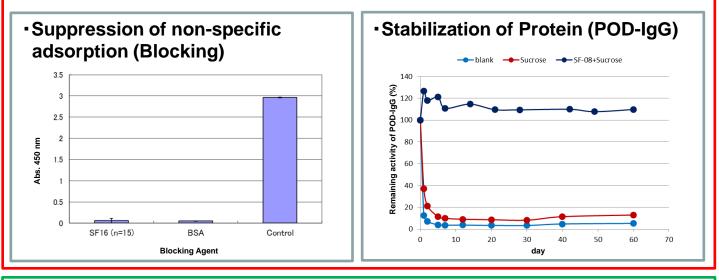
Lipidure[®]-SF

Lipidure[®]-SF series are surfactants consisted of phosphorylcholine, which is polar group of phospholipids in biological membranes, and hydrophobic group.

Chemical Structure



Use of Lipidure[®]-SF series as adduct allows suppression of nonspecific adsorption of agent and/or analyte (SF16) and stabilization of protein (SF08).



Name	CMC (wt%)	Product form
Lipidure [®] -SF08	0.1	5wt% aq.
Lipidure [®] -SF16	0.0015	1wt% aq.

*Please contact us if you are interested in another chain-length (n) product.

Lipidure[®] is trademark of NOF CORPORATION in the US(JAPAN).

Experimental details

< Suppression of non-specific adsorption (Blocking)>

- 1. 0.5 wt% of Lipidure[®]-SF16 solution was prepared with Dulbecco's PBS(D-PBS).
- 2. 200 μ L of the solution was added to each well (maxi soap 96F plate made by Nunc).
- 3. The plate was incubated at room temperature for 2 hours .
- 4. After the solutions were removed, the plate was dried overnight in desiccator.
- 5. Each well was washed with D-PBS (3 times \times 200 µL/well).
- 6. 100 μL of POD-IgG (Peroxidase-labeled anti-mouse IgG) solution diluted 20000 times with D-PBS was added to each well.
- 7. The plate was washed with Tween20-contaning PBS (4 times $\times 200 \ \mu L/well).$
- 100 μL of TMBZ reaction solution was added to each well and reacted at room temperature for 7 min..
- 9. The reaction was quenched with 50 μL of 2N sulfuric acid and measured absorbance at 450 nm using a plate reader.

<Stabilization of Protein (POD-IgG)>

- 1. 20 wt% of sucrose solution and 0.2 wt% of Lipidure[®]-SF08 solution were prepared with D-PBS.
- 2. 0.1wt% of Lipidure[®]-SF08 solution contained 10 wt% of sucrose solution was prepared by mixing an equal amount of the solutions.
- 3. POD-IgG was diluted 20000 times with the solution.
- 4. The solution was stored in refrigerator at 4 $^\circ\!C.$
- 5. 8 μ L of the solution was added to each well (maxi soap 96F plate made by Nunc) at set hours.
- 5. 100 μL of reaction solution was added to each well and reacted at room temperature for 7 min..
- 6. The reaction was quenched with 50 μL of 2N sulfuric acid and measured absorbance at 450 nm using a plate reader.

Precautions for safe handling

- 1. Please store in refrigerator and bring back to room temperature before use.
- 2. Please be careful to bubble in case of being shaken intensely.
- 3. Although Lipidure[®]-SF16 precipitates under refrigeration, the performance is not affected. Please be dissolved the precipitation by heating before use.

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Life Science Products Division

Yebisu Garden Place Tower, 20-3, Ebisu 4-chome, Shibuya-ku, Tokyo 150-6019, Japan TEL. +81-3-5424-6771 / FAX. +81-3-5424-6802 E-mail: g_honn_ls@nof.co.jp