Europa Bioproducts Ltd

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Amino-EG6-hexadecanethiol, hydrochloride

Item#	Unit Size
A505-10	10 mg

Chemical Name: 20-(16-Mercaptohexadecanyloxy)-3,6,9,12,15,18-hexaoxaeicosane-1-amine, hydrochloride
Appearance: White or slightly yellow solid
Purity: ≥95.0% (HPLC)
Solubility: 10 mmol/L (Ethyl alcohol, Methyl alcohol, Chloroform)
MW: 574.30, $C_{28}H_{60}ClNO_6S$
Application: SAM preparation, amine group coating, and hydrophilic surface

Storage Condition: -20°C, protect from light and metal
Shipping Condition: ambient temperature

Product Description

Polyethyleneglycols (PEGs) are widely used for material modifications to improve hydrophilicity of the surface. PEG-coated materials are usually more stable under physiological conditions. Since Amino-EG_6-undecanethiol has 6 ethylene glycol units, 11 carbon atoms, and an SH group at the end, it can be used to prepare a highly oriented and hydrophilic SAM on a gold surface. This is suitable for biomaterial labeling on the surface due to the improved hydrophilicity. The hydrophilic surface can prevent proteins or other biomaterials from non-specific binding. Therefore, the SAM prepared by this reagent will provide a better surface to develop biomaterial sensors or DNA/ protein microarrays. To prepare an Amino-EG_6-SAM on a gold surface, hydroxy-EGn- undecanethiols (n=3, 6) are used to dilute the number of amino groups according to the density of the molecules being introduced onto the surface.

Structural Formula

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