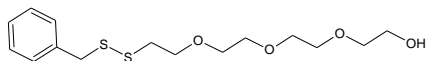


Custom Electrode Coatings

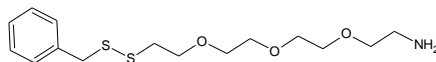
1. Surface modifying monolayers

1(a) Benzyldisulphide-TEG-OH

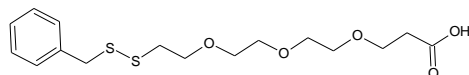
Standard spacer



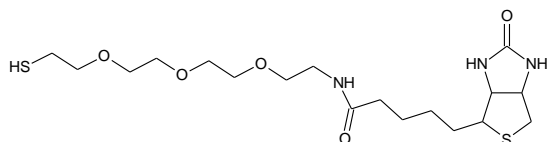
1(b) Benzyldisulphide-TEG-NH2 **** NOT IN STOCK ****



1(c) Benzyldisulphide-TEG-COOH



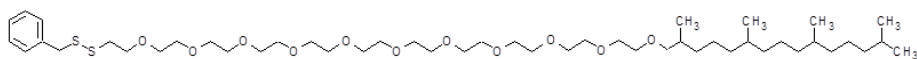
1(d) Thiol-TEG-Biotin



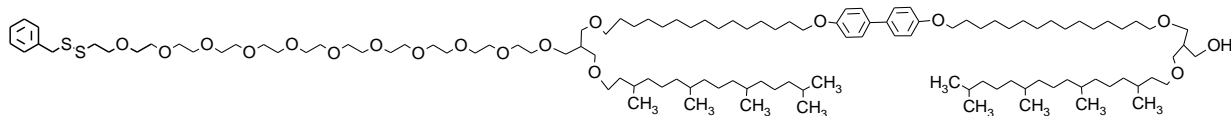
2. Membrane tethers

2(a) Ester free, Benzyl disulphide PEG phytanyl – (half membrane spanning penetrating only inner bilayer leaflet)

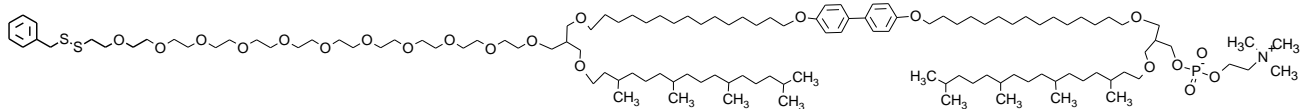
Standard tether



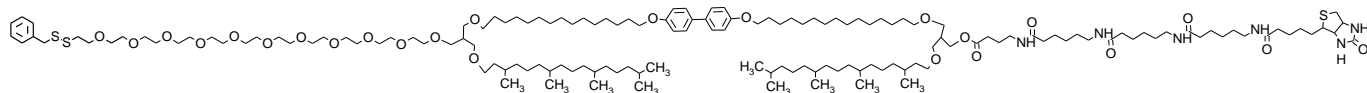
2(b) Hydroxyl terminated membrane spanning tethers – (full membrane spanning tether)



2(c) Phosphoryl choline terminated membrane spanning tethers– (full membrane spanning tether)

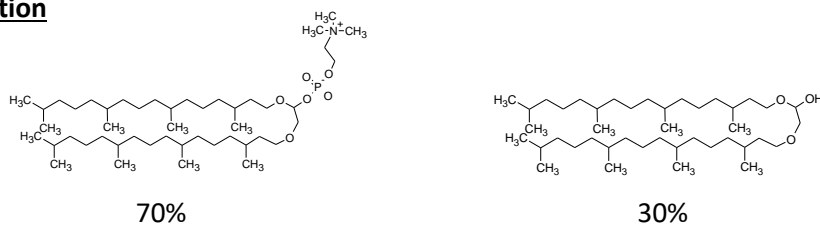


2(d) Membrane spanning tethers with four aminocapryl linked biotin – (full membrane spanning tether)



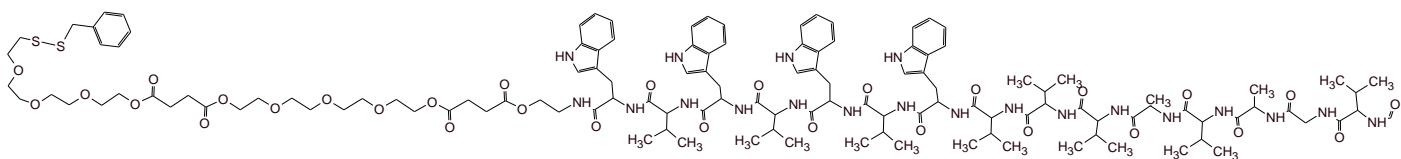
3(h) 70% C20 DPEPC, 30% C20 GDPE (optimal sealed membrane)

Standard mobile lipid solution

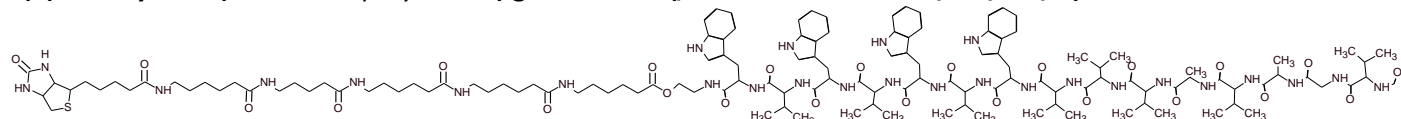


4 Gramicidin

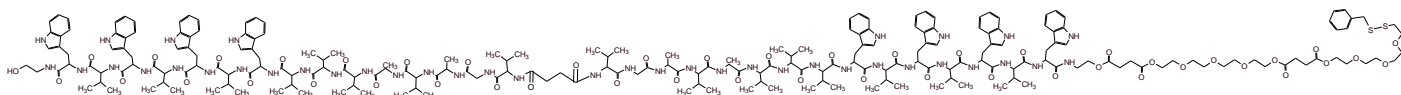
4(a) Tethered gramicidin – (positioned in inner leaflet of bilayer)



4(b) Biotinylated (x5 aminocaproyl linker) gramicidin – (positioned in the outer leaflet of bilayer)



4(c) Tethered bis gramicidin – (spans both leaflets of lipid bilayer)



Gramicidin covalently linked by a succinate group to a second gramicidin attached to a PEG Benzyl disulphide group.