

# Chemoselective Polymers and Functionalized Gold Nanoclusters

**For Absorbent Chemical Sensor Applications**

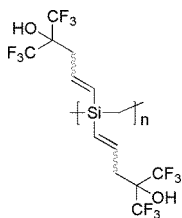
**Features:**

- **Readily soluble in common organic solvents**
- **High functional group density**
- **High thermal and chemical stability**
- **Stable interface with most substrates**
- **Reversible target analyte binding**
- **High viscosity liquids**

**Fluoroalcohol Polycarbosilanes (Hyperbranched)**

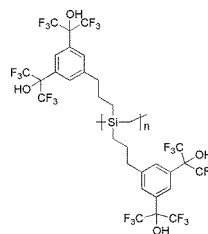
**SC-F101**

(HC)



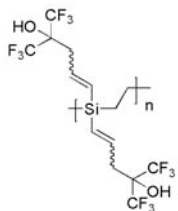
SC-F101-1 100 mg  
SC-F101-2 250 mg  
SC-F101-3 500 mg

**SC-F105**



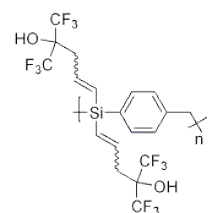
SC-F105-1 100 mg  
SC-F105-2 250 mg  
SC-F105-3 500 mg

**SC-F102**



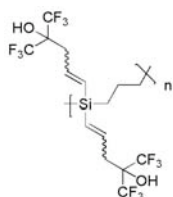
SC-F102-1 100 mg  
SC-F102-2 250 mg  
SC-F102-3 500 mg

**SC-F106**



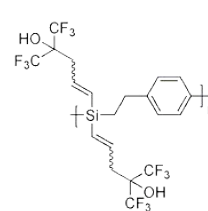
SC-F106-1 100 mg  
SC-F106-2 250 mg  
SC-F106-3 500 mg

**SC-F103**



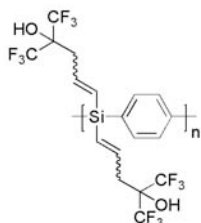
SC-F103-1 100 mg  
SC-F103-2 250 mg  
SC-F103-3 500 mg

**SC-F107**



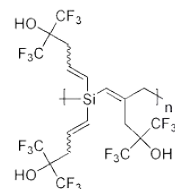
SC-F107-1 100 mg  
SC-F107-2 250 mg  
SC-F107-3 500 mg

**SC-F104**



SC-F104-1 100 mg  
SC-F104-2 250 mg  
SC-F104-3 500 mg

**SC-F108**



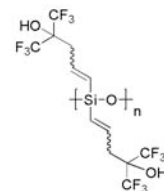
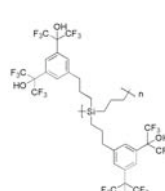
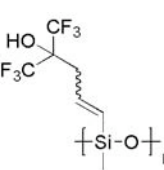
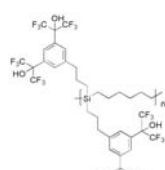
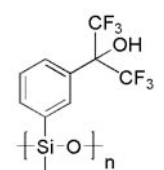
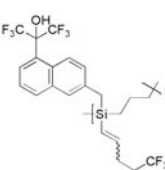
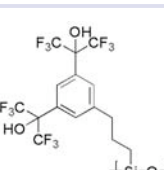
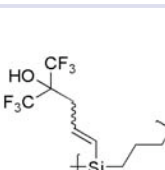
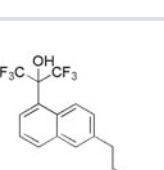
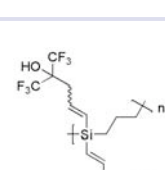
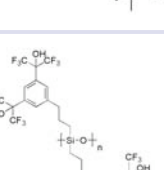
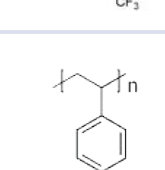
SC-F108-1 100 mg  
SC-F108-2 250 mg  
SC-F108-3 500 mg

These polymers are licensed under U.S. Patent No. NRL-LIC-05-13-179 issued to the United States of America, as represented by the Secretary of the Navy for the absorption of chemical analytes leading to detection and identification of such chemical analytes.

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Fluoroalcohol Polysiloxanes				Fluoroalcohol Polycarbosilanes (Linear)			
<b>SC-F201</b> (Adiol)		SC-F201-1 SC-F201-2 SC-F201-3	100 mg 250 mg 500 mg	<b>SC-F301</b>		SC-F301-1 SC-F301-2 SC-F301-3	100 mg 250 mg 500 mg
<b>SC-F202</b> (SXFA)		SC-F202-1 SC-F202-2 SC-F202-3	100 mg 250 mg 500 mg	<b>SC-F302</b>		SC-F302-1 SC-F302-2 SC-F302-3	100 mg 250 mg 500 mg
<b>SC-F203</b>		SC-F203-1 SC-F203-2 SC-F203-3	100 mg 250 mg 500 mg	<b>SC-F303</b>		SC-F303-1 SC-F303-2 SC-F303-3	100 mg 250 mg 500 mg
<b>SC-F204</b>		SC-F204-1 SC-F204-2 SC-F204-3	100 mg 250 mg 500 mg	<b>SC-F304</b>		SC-F304-1 SC-F304-2 SC-F304-3	100 mg 250 mg 500 mg
<b>SC-F205</b>		SC-F205-1 SC-F205-2 SC-F205-3	100 mg 250 mg 500 mg	<b>SC-F305</b>		SC-F305-1 SC-F305-2 SC-F305-3	100 mg 250 mg 500 mg
<b>SC-F206</b>		SC-F206-1 SC-F206-2 SC-F206-3	100 mg 250 mg 500 mg	<b>SC-S501</b> (P4V)		SC-S501-1 SC-S501-2 SC-S501-3	100 mg 250 mg 500 mg

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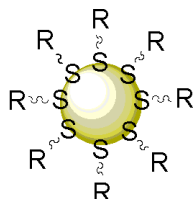
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### Functionalized Gold Nanoclusters

**SC-G401**

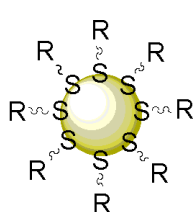


**Au-C12-H**

**R=(n-C<sub>12</sub>H<sub>25</sub>)**

SC-G401-1 100 mg  
SC-G401-2 250 mg  
SC-G401-3 500 mg

**SC-G402**

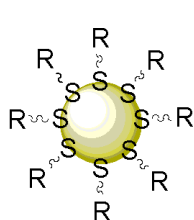


**Au-C6-OH**

**R=HO(n-C<sub>6</sub>H<sub>12</sub>)**

SC-G402-1 100 mg  
SC-G402-2 250 mg  
SC-G402-3 500 mg

**SC-G403**

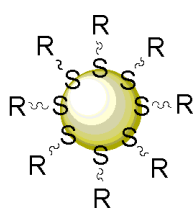


**Au-C10-HFA**

**R= HOC(CF<sub>3</sub>)<sub>2</sub>(n-C<sub>10</sub>H<sub>18</sub>)**

SC-G403-1 100 mg  
SC-G403-2 250 mg  
SC-G403-3 500 mg

**SC-G404**

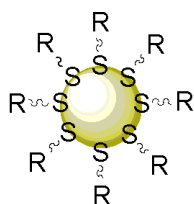


**Au-C11-COOH**

**R=HOOC(n-C<sub>11</sub>H<sub>22</sub>)**

SC-G404-1 100 mg  
SC-G404-2 250 mg  
SC-G404-3 500 mg

**SC-G405**



**Au-C2-nBuEster**

**R=nBuEster-C<sub>2</sub>H<sub>4</sub>**

SC-G405-1 100 mg  
SC-G405-2 250 mg  
SC-G405-3 500 mg