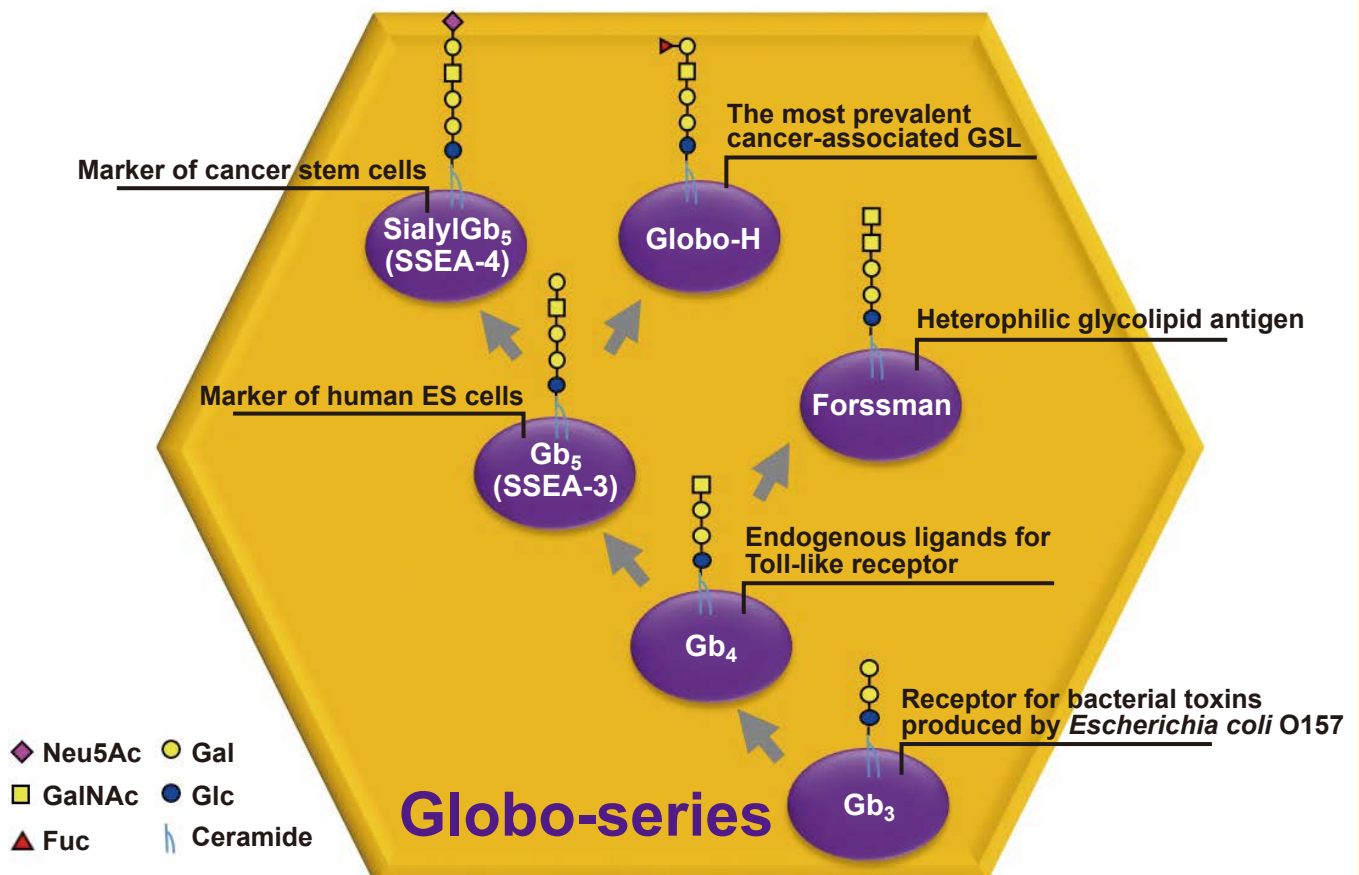


# Chemical Synthesis of Globo-series Oligosaccharides

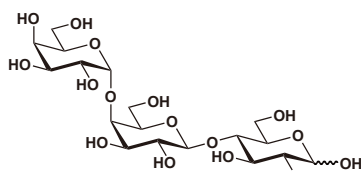
Globo-series glycolipids have various biological functions, such as O157 *Escherichia coli* bacterial toxin receptor [Gb<sub>3</sub>], breast cancer marker [Globo-H], and stage-specific embryonic antigens that are developmentally regulated during early embryogenesis<sup>1</sup> [Gb<sub>5</sub> (SSEA-3)/Sialyl Gb<sub>5</sub> (SSEA-4)]. In addition, Globo-series glycolipids are present in human erythrocytes and are antigens of a very rare blood group called P1PK.

TCI has a lineup of a variety of Globo-series oligosaccharides prepared by chemical synthesis.

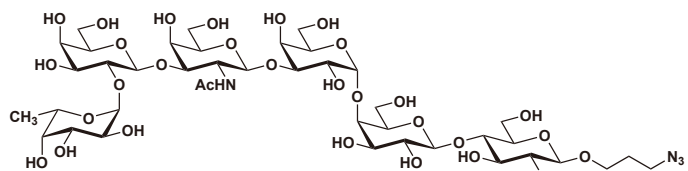


Reference 1) J. K. Henderson, P. W. Andrews, *et al.*, *Stem Cells* **2002**, *20*, 329.  
<https://doi.org/10.1634/stemcells.20-4-329>

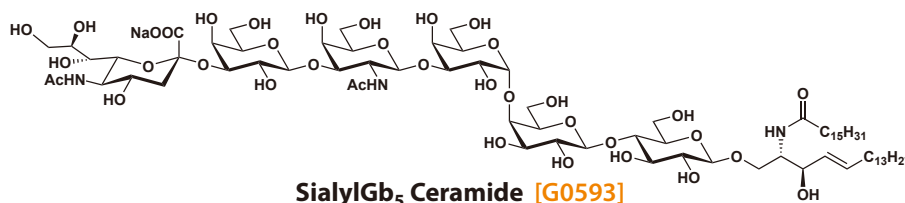
TCI offers you various Globo-series oligosaccharides



**Globotriose [G0479]**




**Globo-H-PrN<sub>3</sub> [G0596]**



**SialylGb<sub>5</sub> Ceramide [G0593]**

# Chemical Synthesis of Globo-series Oligosaccharides

Oligosaccharide Structure	Product		
	Glycan 	Conjugate 	Antibody 
<b>Gb<sub>3</sub></b> 	<b>Gb<sub>3</sub>-β-MP</b> 100mg [M1767]		<b>Anti-Gb<sub>3</sub> Monoclonal Antibody</b> 0.1mg/vial [A2506]
	<b>Gb<sub>3</sub>-β-ethylamine</b> Please contact us. [G0402]	<b>HSA-Gb<sub>3</sub></b> 0.1mg/vial [H1718]	
	<b>Gb<sub>3</sub>-β-ethylazide</b> Please contact us. [G0403]		
	<b>Globotriose</b> 5mg / 50mg [G0479]		
<b>Gb<sub>4</sub></b> 	<b>Gb<sub>4</sub> Ceramide</b> 1mg / 5mg [G0580]	<b>Gb<sub>4</sub>-β-pNP</b> Please contact us. [G0354]	
<b>Forssman</b> 	<b>Forssman Pentose MP Glycoside</b> Please contact us. [F0584]		
<b>Gb<sub>5</sub> (SSEA-3)</b> 	<b>Gb<sub>5</sub> Ceramide</b> 1mg / 5mg [G0592]	<b>HSA-Gb<sub>5</sub></b> 0.1mg/vial [H1777]	
	<b>Gb<sub>5</sub>-PrN<sub>3</sub></b> 1mg / 5mg [G0599]		
	<b>Globopentaose</b> Please contact us. [G0434]	<b>Gb<sub>5</sub>-β-pNP</b> 5mg [G0355]	
<b>SialylGb<sub>5</sub> (SSEA-4)</b> 	<b>SialylGb<sub>5</sub> Ceramide</b> 1mg / 5mg [G0593]		
<b>Globo-H</b> 	<b>Globo-H Ceramide</b> 1mg / 5mg [G0589]	<b>HSA-Globo-H</b> 0.1mg/vial [H1794]	
	<b>Globo-H-PrNH<sub>2</sub></b> Please contact us. [G0447]		
	<b>Globo-H-PrN<sub>3</sub></b> 1mg / 5mg [G0596]		

For further information please refer to our website at [www.TCIchemicals.com](http://www.TCIchemicals.com).

TCI globo



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