

## Product Information Sheet

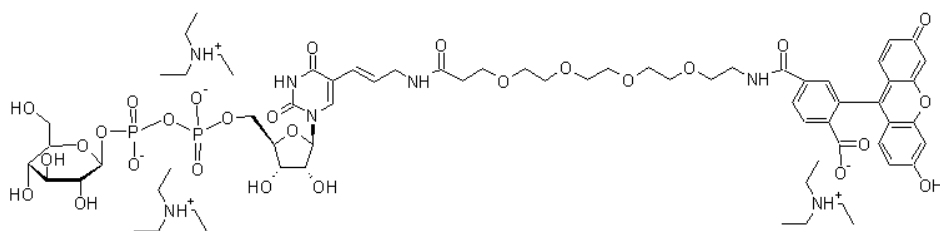
### Ordering Information

Product Number: 11706  
Product Name: Glucose-UDP-(PEG)6-Fluorescein Conjugate  
Unit Size: 100 µg  
Storage Conditions: <-15 °C and kept from light and moisture  
Expiration Date: 12 months upon receiving

### Chemical and Spectral Properties

Molecular Weight: 1530.54

Chemical Structure:



Soluble in: Water  
Excitation Wavelength: 490 nm  
Emission Wavelength: 514 nm

### Application Notes

Uridine-5'-diphospho-1- $\alpha$ -D-glucose (UDP-Glc) is a key intermediate in carbohydrate metabolism. UDP-Glc serves as a precursor of glycogen, can be metabolized into UDP-galactose and UDP-glucuronic acid which can then be incorporated into polysaccharides as galactose and glucuronic acid. UDP-Glc serves as a precursor of sucrose lipopolysaccharides and glycosphingolipids. UDP-Glc is a common substrate used by glucosyltransferases, including certain bacterial toxins such as Toxins A and B from *Clostridium difficile*. Fluorescent analogs of UDP-Glc might be used for studying glucosyltransferases and clostridial toxins. This fluorescein UDGl derivative has the spectral properties identical to those of FITC conjugates. Compared to #11705, this UDP-Glc derivative has a much longer spacer between the fluorophore and UDP moiety.