

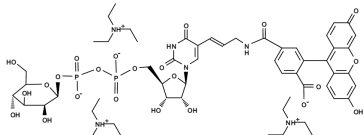
Glucose-UDP-Fluorescein Conjugate

Catalog number: 11705
Unit size: 100 ug

Product Details

Storage Conditions	Freeze ($-15\text{ }^{\circ}\text{C}$), Minimize light exposure
Expiration Date	6 months upon receiving

Chemical Properties

Appearance	Orange solid
Molecular Weight	1283.25
Soluble In	Water
Chemical Structure	

Spectral Properties

Excitation Wavelength	498 nm
Emission Wavelength	517 nm

Applications

Uridine-5'-diphospho-1- α -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 UDP-Glc derivative has the spectral properties identical to those of FITC conjugates.