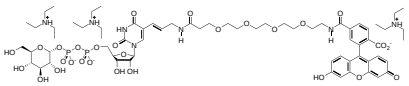
Glucose-UDP-(PEG)6-Fluorescein Conjugate

Catalog Number: 11706
Unit Size: 100 ug

Product Details

Storage Conditions	Freeze (< -15 °C), Minimize light exposure
Expiration Date	6 months upon receiving

Chemical Properties

Appearance	Solid orange
Molecular Weight	1530.54
Soluble In	Water
Chemical Structure	

Spectral Properties

Excitation Wavelength	498 nm
Emission Wavelength	517 nm

Applications

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 UDP-Glc 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.

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