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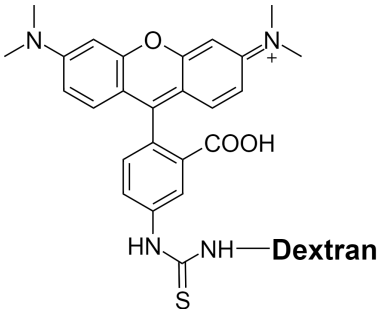
Product Information Sheet

Ordering Information

Product Number:	21706
Product Name:	TRITC–dextran conjugate (average MW = ~20K)
Unit Size:	25 mg
Storage Conditions:	
Expiration Date:	12 months upon receiving

Chemical and Spectral Properties

Appearance:	Solid
Molecular Weight:	N/A
Chemical Structure:	
Soluble In:	Water
Excitation Wavelength:	543
Emission Wavelength:	569

Application Notes

TRITC-labeled dextran is used in cardiovascular, microcirculation, perfusion, cell monolayer and cell membrane permeability research as fluorescent flux tracer compound that supports the measurement of processes such as blood flow, membrane damage, vascular drainage and renal elimination. It is also used in microcirculation and cell permeability research utilizing microfluorimetry, and possible in perfusion studies in animals. FITC-dextran has also been used to study plant cell wall porosity and capillary permeability. Plasma proteins have been shown not to bind to FITC-dextran. Small FITC-dextrans are often used to measure processes such as endocytosis and cell junction permeability. Rhodamine-dextran, 20kDa, may be used to study cell processes (such as endocytosis and osmoporation), endothelial or epithelial monolayer porosity, apical-basolateral movements within cell layers and cell junction permeability and drug release from structures such as hydrogens and collagen minirods.