Concanavalin A, XFD594 Labeled *XFD594 Same Structure to Alexa Fluor™ 594*

Catalog number: 25575
Unit size: 1 mg

Product Details

Storage Conditions	Freeze (<-15 °C), Minimize light exposure
Expiration Date	12 months upon receiving

Chemical Properties

Appearance	Solid
Soluble In	Water

Spectral Properties

Excitation Wavelength	590 nm
Emission Wavelength	618 nm

Applications

XFD594 is manufactured by AAT Bioquest, and it has the same chemical structure of Alexa Fluor® 594 (Alexa Fluor® is the trademark of ThermoFisher). Concanavalin A (ConA) is a lectin that binds specifically to certain structures found in various sugars, glycoproteins and glycolipids. ConA is widely used in biology and biochemistry to characterize glycoproteins and other sugar-containing entities on the surface of various cells. It is also used to purify glycosylated macromolecules in lectin affinity chromatography, as well as to study immune regulation by various immune cells. ConA binds specifically α-D-mannosyl and α-D-glucosyl residues (two hexoses differing only in the alcohol on carbon 2) in terminal position of ramified structures from B-Glycans. Concanavalin A (Con A) is one of the most widely used lectins in cell biology. XFD594-labeled Concanavalin A (equivalent to Alexa Fluor® 594 conjugate of Con A, Alexa Fluor® is the trademark of ThermoFisher) exhibits the bright, red fluorescence. XFD594 Con A selectively binds to a-mannopyranosyl and a-glucopyranosyl residues.