

## **Product Data Sheet**

Date of Issue: 20 Nov 2020

## 1. Product Information

- Product Name : Fucoidan, FSD Fluor<sup>™</sup> 750
- Catalog Number : RFY1702
- Packing Unit : 1 mg / 5 mg / 25 mg
- Appearance : Green Solid
- Storage Conditions : Protect from light, stored at 4 °C

## **Specifications**

- Fluorophore : FSD Fluor<sup>™</sup> 750
- · Application : tumor angiogenesis detection, P-selectin imaging, cancer cell imaging
- Excitation/Emission Max. : 752/773 nm

## 2. Description

Fucoidan, FSD Fluor<sup>™</sup> 750 is a NIR fluorescent biopolymer that fucoidan (~30 KDa) is covalently conjugated with FSD Fluor 750. Fucoidan is a highly sulfated polysaccharide from various species of brown algae and seaweed and known to have nanomolar affinity to P-selectin which is overexpressed on the various cancers, endothelium overlying active atherosclerotic plaques, and activated platelet. FSD 750 is the new generation of NIR dye, developed by BioActs' cutting-edge technology, that displaying excellent optical property comparing to spectrally similar dyes. FSD 750 might be excited using the 750 nm laser line or dye-pumped laser excitation and the emission occurs at biological tissue permeable NIR region. Fucoidan, FSD Fluor<sup>™</sup> 750 can be applicable in fluorescence imaging of various biological studies such as P-selectin overexpression in tumor cells, angiogenic blood vessels in tumors and inflammatory lesions, vulnerable atherosclerotic plaques, platelet-rich thrombus, heart ischemia, etc.

WARNING: Intended for research use only. This product is not intended or approved for human, diagnostics, therapeutic or veterinary use. Use of this product for human or animal testing is extremely hazardous and may result in disease, severe injury, or death. MATERIAL SAFETY DATA: Review the complete Material Safety Data Sheet before use Material Safety Data Sheet (MSDS), Certificate of Analysis (COA) and Technical Information are available at http://www.bioacts.com or upon request.