

Product Data Sheet

Date of Issue: 26 Nov 2019

1. Product Information

- Product Name : Streptavidin, Flamma® 774
- Catalog Number : RFP0714
- Packing Unit : 1 mg
- Appearance : Green Solid
- Storage Conditions : Protect from Light at -20 °C

2. Description

Streptavidin, Flamma® 774 is a fluorescence labeled biotin binding protein that Flamma 774 dye is covalently attached to streptavidin. Homotetrameric protein streptavidin (53 KDa) displays high binding affinity (Kd ~ 1014 M) for biotin, and each streptavidin can bind with four biotins by a non-covalent interaction. Streptavidin has a little lower affinity than avidin but displays less non-specific binding due to near-neutral pI value and lack of carbohydrates. Flamma® 774 is a near infrared (NIR) fluorescent dye. Flamma® 774 might be excited using 750 nm laser line or dye-pumped laser excitation. Fluorescent streptavidin–biotin conjugation has been utilized in a wide range of applications such as cell surface labeling, ELISA, immunohistochemistry, affinity purification, FACS, EMSA, etc. The bond formation between biotin and streptavidin is rapid, and the binding is stable at high temperature and in a wide range of pH, organic solvents and denaturing agents. BioActs offers Streptavidin, Flamma® 774 as an effective detecting and analytic probe for diverse applications in medical diagnostics, in vitro, in vivo and animal model study.

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.