

Product Data Sheet

Date of Issue: 22 Feb 2019

1. Product Information

- Product Name : Biotin, FITC
- Catalog Number : RFP0601
- Packing Unit : 5 mg / 25 mg
- Appearance : Orange Solid
- Storage Conditions : Protect from Light at 4 °C

2. Additional Information

- Fluorophore Label : FITC
- Reactive Group : Biotin
- Reactive Toward : Avidin / Streptavidin
- Molecular Formula : $C_{31}H_{30}N_4O_8S$
- Molecular Weight : 619 g/mol
- Excitation_{Max} : 494 ± 3 nm
- Emission_{Max} : 522 ± 4 nm
- Extinction Coefficient : $\geq 64,000$ /cm·M

3. Description

Biotin-FITC is avidin and streptavidin reactive fluorescence probe that FITC fluorophore is covalently attached to biotin. Biotin binds to avidin and streptavidin in high affinity, and both proteins can be conjugated with up to four biotin probes. The bond formation between biotin and avidin/streptavidin is rapid, and once formed, is stable at high temperature and in a wide range of pH, organic solvents and denaturing agents. Fluorescence conjugated biotin-avidin/streptavidin pair has been utilized in a wide range of applications such as cell surface labeling, immunohistochemistry, ELISA, affinity purification, FACS, EMSA, etc. BioActs offers Biotin-FITC as effective detecting and analytic fluorescence probe for diverse applications in biochemical and biological research fields.