

Product Data Sheet

Date of Issue: 26 Nov 2019

1. Product Information

- Product Name : Biotin, Flamma® 675
- Catalog Number : RFP0612
- Packing Unit : 1 mg / 5 mg
- Appearance : Blue Solid
- Storage Conditions : Protect from Light at 4 °C

2. Additional Information

- Fluorophore Label : Flamma® 675
- Reactive Group : Biotin
- Molecular Weight : 1185 g/mol
- Excitation_{Max} : 675 ± 3 nm
- Emission_{Max} : 691 ± 4 nm
- Extinction Coefficient : ≥ 231,000 /cm·M

3. Description

Biotin, Flamma® 675 is a fluorescent biotin that Flamma® 675 dye is covalently attached to biotin. Biotin, a 244 dalton vitamin found in all living cells, binds to avidin and streptavidin in high affinity. In biotechnology, biotin conjugated antibodies, enzymes, small molecules or reporters are used to form complex with avidin/streptavidin. Flamma® 675 is a near infrared (NIR) fluorescent dye. Flamma® 675 might be excited using 633 nm laser line. Fluorescence-conjugated biotins have been utilized in various applications such as cell surface labeling, ELISA, immunohistochemistry, affinity purification, FACS, EMSA, etc. The bond formation between biotin and avidin/streptavidin is rapid, and the binding is stable at high temperature, in a wide range of pH and denaturing agents. BioActs offers Biotin, Flamma® 675 as an effective detecting and analytic probe for diverse applications in medical diagnostics, in vitro, in vivo and animal model study.