

Product Data Sheet

Date of Issue: 26 Nov 2019

1. Product Information

- Product Name : Biotin, Flamma® 496
- Catalog Number : RFP0616
- Packing Unit : 1 mg / 5 mg
- Appearance : Yellow Solid
- Storage Conditions : Protect from Light at 4 °C

2. Additional Information

- Fluorophore Label : Flamma® 496
- Reactive Group : Biotin
- Molecular Weight : 655 g/mol
- Excitation_{Max} : 496 ± 3 nm
- Emission_{Max} : 520 ± 4 nm
- Extinction Coefficient : ≥ 51,000 /cm·M

3. Description

Biotin, Flamma® 496 is a fluorescent biotin that Flamma® 496 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® 496 is a bright green fluorescent dye. Flamma® 496 might be excited using 488 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® 496 as an effective detecting and analytic probe for diverse applications in medical diagnostics and in vitro analysis.