

# Product Data Sheet

Date of Issue: 7 Oct 2021

## 1. Product Information

- Product Name : FAM Amine
- Catalog Number : CWE1003
- Packing Unit : 25 mg
- Appearance : Yellow Solid
- Storage Conditions : Protect from Light at 4 °C

## 2. Additional Information

- Fluorophore Label : FAM
- Reactive Group : Amine
- Reactive Toward : Carboxyl group
- Molecular Formula :  $C_{23}H_{20}N_2O_6$
- Molecular Weight : 420 g/mol
- Excitation<sub>Max</sub> :  $494 \pm 3$  nm
- Emission<sub>Max</sub> :  $520 \pm 4$  nm
- Extinction Coefficient :  $\geq 52,000$  /cm·M

## 3. Description

FAM Amine is inactive form of bright green fluorescent dye used to generate a stable fluorescence signal in bioimaging. The maxima of Ex/Em values are at 494/520 nm, similar to that of Alexa 488 and Cy2. FAM might be excited using 488 nm laser line and displays good optical property. The primary amine is attached to the fluorophore through an ethylamino linkage. FAM amine can be coupled with carboxylic acids at small molecules or on biomolecules by standard amide bond coupling conditions or can be utilized as a reference standard for dye-conjugates.