

Product Data Sheet

Date of Issue: 8 Oct 2021

1. Product Information

- Product Name : TAMRA Amine
- Catalog Number : KWE1025
- Packing Unit : 25 mg
- Appearance : Red Solid
- Storage Conditions : Protect from Light at 4 °C

2. Additional Information

- Fluorophore Label : TAMRA
- Reactive Group : Amine
- Reactive Toward : Carboxyl group
- Molecular Formula : $C_{27}H_{30}N_4O_4$
- Molecular Weight : 474.55 g/mol
- Excitation $_{Max}$: 553 ± 3 nm
- Emission $_{Max}$: 575 ± 4 nm
- Extinction Coefficient : $\geq 16,000$ /cm·M

3. Description

TAMRA Amine is an inactive form of bright yellow dye that used to generate a stable fluorescence signal in bioimaging. The maxima of Ex/Em values are at 543/575 nm, similar to that of DyLight 549, ATTO 550 and Cy 3. TAMRA might be excited using 543 or 546 nm laser line and displays good optical property. TAMRA 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.