

# Product Data Sheet

Date of Issue: 7 Oct 2021

## 1. Product Information

- Product Name : Flamma® 552 Hydrazide
- Catalog Number : PWH1122
- Packing Unit : 1mg / 5mg / 25 mg
- Appearance : Red Solid
- Storage Conditions : Protect from Light at -20 °C

## 2. Additional Information

- Fluorophore Label : Flamma® 552
- Reactive Group : Hydrazide
- Reactive Toward : Aldehyde, Ketone
- Molecular Formula :  $C_{34}H_{46}N_4O_7S_2^-$
- Molecular Weight : 686.88 g/mol
- Excitation  $_{Max}$  :  $550 \pm 3$  nm
- Emission  $_{Max}$  :  $564 \pm 4$  nm
- Extinction Coefficient :  $\geq 136,000$  /cm·M

## 3. Description

Flamma® Fluors 552 Hydrazide is a reactive form of bright yellow fluorescent dye induced from cyanine structure and used to generate a stable fluorescence signal in bioimaging. The maxima of Ex/Em values are at 550/564 nm, similar to that of Alexa 555, DyLight 549, ATTO 550 and Cy3. Flamma 552 might be excited using 532, 543, 546 or 555 nm laser lines and displays excellent optical property. Hydrazides can label aldehyde and ketone through reductive amination reaction to form an imine linkage. The main labeling target for hydrazides are free reducing sugars on biomolecules, and prior to conjugation, primary and secondary alcohols on polysaccharide and glycoprotein are usually oxidized to aldehyde and ketone. We offer Flamma Fluors 552 hydrazide for labeling of polysaccharide, glycoprotein and other biomolecules bearing aldehyde or ketone.