

Cy3-Azide

Cat# FLUOR-010-01

Pack Size: 1 mg

Storage: -20°C in a dark and dry place. (Shipping in wet-ice/gel pack)



Introduction

Cy3-azide is a fluorescent dye used in bioconjugation and labeling applications. It belongs to the cyanine family of dyes and has an excitation maximum of 554 nm and an emission maximum of 568 nm.

The azide functional group in Cy3-azide allows for conjugation with biomolecules containing alkyne groups through a copper(I)-catalyzed azide-alkyne cycloaddition (CuAAC) reaction, also known as click chemistry. This reaction is widely used in bioconjugation applications due to its high specificity and efficiency.

Cy3-azide can be used for various applications such as imaging, detection, and quantification of biological molecules in a wide range of samples, including cells and tissues. It is widely used in fluorescence microscopy, flow cytometry, and other imaging techniques.

It is important to note that Cy3-azide should be handled with caution, as it may be hazardous if not handled properly. It should be stored at -20°C and protected from light. Additionally, appropriate protective equipment, such as gloves and safety glasses, should be worn while handling Cy3-azide.

Product Specification

- Molecular Formula: $C_{31}H_{39}N_5$
- Molecular Weight: 481.32 g/mol
- Excitation Maximum: 542 nm
- Emission Maximum: 562 nm
- Functional Group: Azide
- Solubility: Soluble in DMSO and alcohols
- Storage: Store at -20°C in a dark place
- Extinction coefficient (ϵ): $113780 M^{-1}cm^{-1}$
- Hazard Statements: Harmful if not handled properly

Purity

>99%

Structure

