

Product Data Sheet



UGQuencher-0 NHS ester [equivalent to BHQ 0 NHS ester]

Catalog ID: 170201

Revised: 2025-01-31

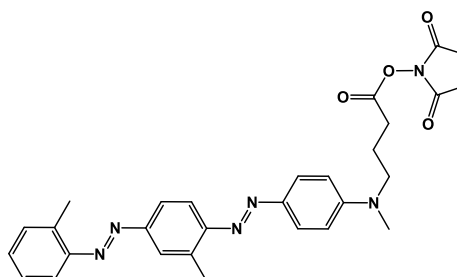
Description

The UGQuencher dyes are true dark quenchers with no native emission due to their polyaromatic-azo backbone. Substituting electron-donating and withdrawing groups on the aromatic rings produces a complete series of quenchers with broad absorption curves that span the visible spectrum into the near IR region. UGQuencher dyes work through a combination of FRET and static quenching to enable researchers to avoid the residual background signal common to fluorescing quenchers such as TAMRA, or low signal to noise ratio. These quenchers can be paired with all common reporter dyes to construct efficiently quenched qPCR probes for multiplexing assays. In addition to quenching by FRET, UGQuencher dyes have also been shown to efficiently quench fluorescence through static quenching via formation of a ground state complex with the reporter dye.

UGQuencher quenchers have broad absorption spectra and can be paired with reporter dyes that emit in the following ranges: UGQuencher-0: 430-520 nm UGQuencher-1: 480-580 nm UGQuencher-2: 560-670 nm UGQuencher-3: 620-730 nm.

Chemical Properties

CAS number	NA
Formula	C ₂₉ H ₃₀ N ₆ O ₄
Molecular Weight	526.60
Purity	≥95%



Storage

Upon receipt, store at -20°C in the dark. Protect from light and moisture. When stored as indicated, UGQuencher-0 NHS ester is stable for 3 years.

This product is for Research Use Only. Not for Human or Veterinary or Therapeutic Use

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