

N-Quenchers

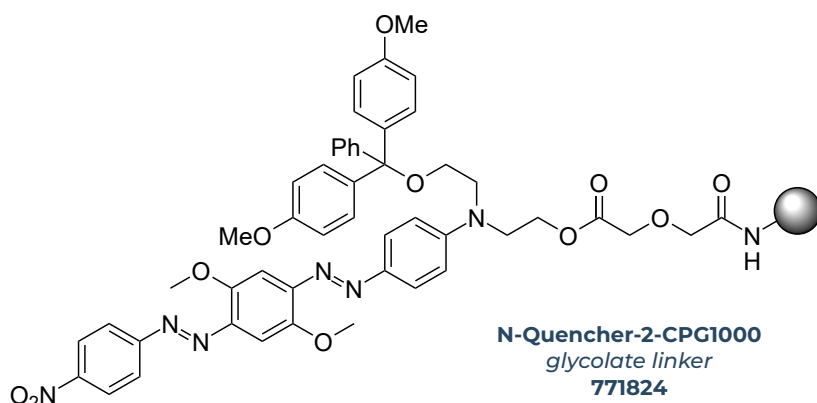
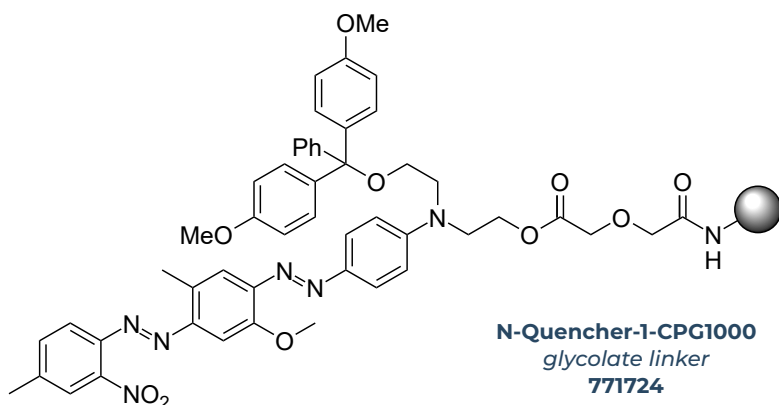
Nucleosyn supplies N-Quencher-1 and N-Quencher-2, as potent dark quenchers, for dual-labeled fluorescent probes mediated real-time sample DNA quantification.

Commonly used quenchers encounter important limitations, such as a background increase with TAMRA due to its native fluorescence, or a poor overlap with reporter dyes emitting above 480 nm in the case of DABCYL. N-Quencher-1 and -2 generate heat rather than light, resulting in a lower background fluorescence. In addition, N-Quencher-1 and -2 proved to be excellent quenchers for molecular beacons and dual-labeled probes, thanks to a significant increase in both static and FRET quenching efficiencies.

The maximum absorption of N-Quencher-1 (534 nm) and N-Quencher-2 (579 nm) makes them directly superimposable with the maximum emission wavelengths of various fluorescent dyes, enabling a wider choice of reporters, including 6-FAM, TET, HEX, or ROX for multiplexing.

Provided as supported reagents, with a glycolate linker, N-Quencher-1 and N-Quencher-2 can be incorporated at the 3'-terminus of oligonucleotides after cleavage of their DMT group.

Nucleosyn developed high-quality reagents, as well as an accurate loading determination procedure, to ensure reliable and suitable results.



Product	Product ref.	Packing sizes*	Specification
N-Quencher-1-CPG1000 (glycolate linker)	771724	0.1 g / 1.0 g / bulk	Loading 25-40 µmol/g
N-Quencher-2-CPG1000 (glycolate linker)	771824	0.1 g / 1.0 g / bulk	Loading 25-40 µmol/g

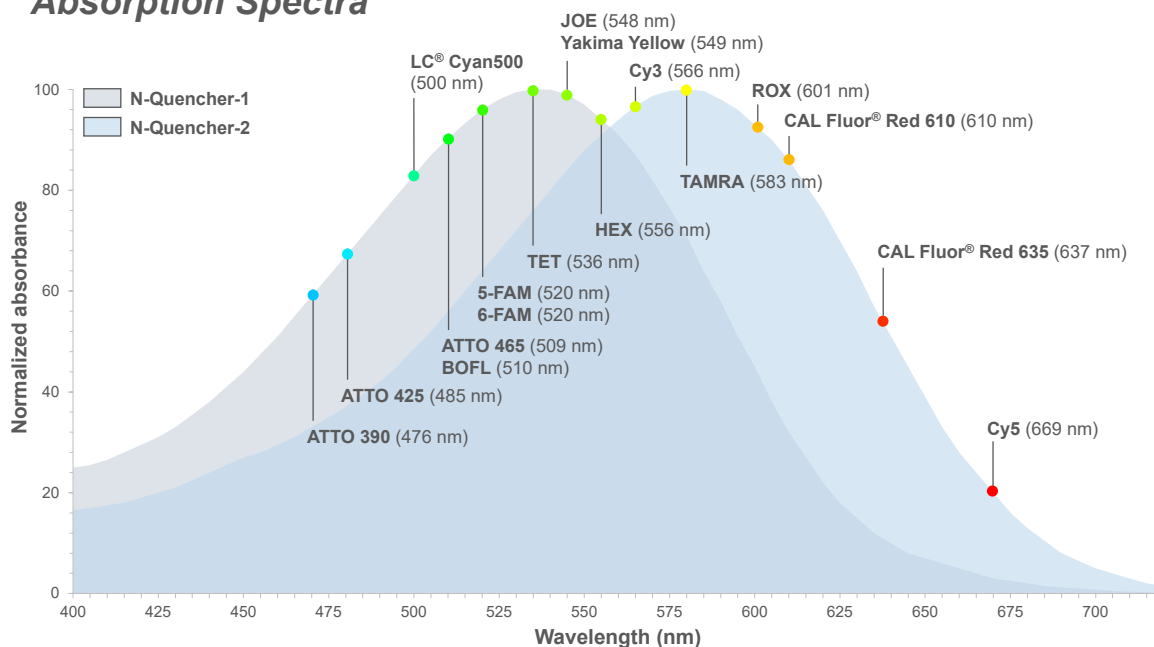
* Standard packaging sizes are proposed: 0.1 g, 1.0 g. Under request, any packaging size is possible, up to multi-gram quantities in pure form.

Absorption range

The maximum absorptions of N-Quencher-1 and N-Quencher-2 are respectively reached at 534 nm and 579 nm.

As depicted, N-Quencher-1 and N-Quencher-2 cover from 480 nm to 650 nm, allowing therefore the use of any dyes within this range.

Absorption Spectra



About Nucleosyn

As a subsidiary of the Biosolve Group, Nucleosyn offers an extensive line of DNA & RNA synthesis reagents, including specialty amidites & modifiers, biotin labeling, fluorescein amidites, dark quenchers, and various solid supports.

Since its creation in 2006, the company has acquired valuable custom synthesis skills to meet your needs and keep proposing innovative, high-quality molecules:

- DNA & RNA synthesis building blocks
- Synthetic lipids
- "DIY" LNP formulation kits
- Stable isotope-labeled compounds



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