# dUTP CF® Dye Conjugates

Labeled with our superior CF® dyes, dUTP conjugates can be used for TUNEL assay or to synthesize labeled DNA probes for in situ hybridization and nucleic acid blotting applications.

**Product attributes**

| | |
|---|---|
| **Colors** | Blue, Green, Orange, Red, Far-red, Near-infrared |

## Product Description

CF® dye-dUTP can be used for TUNEL assay, microarray, or to synthesize labeled DNA probes for in situ hybridization and nucleic acid blotting applications.

- Synthesize exceptionally bright and photostable fluorescent DNA probes
- Detect by fluorescence microscopy, flow cytometry, or in gel
- Compatible with fixed cells or tissue sections
- Choice of 8 CF® dye colors from blue to near infrared
- Biotium's CF® dyes have superior brightness, photostability, and are water-soluble

Supplied in lyophilized form. For PCR applications, Taq polymerase should be used with dUTP conjugates, because dUTP inhibits archaeal polymerases such as Pfu and Vent®. Also see our CF® Dye dCTP Conjugates and TUNEL assay kits, available with a wide selection of bright and photostable CF® dyes.

### Superior CF® Dyes

Biotium's next-generation CF® dyes were designed to be highly water-soluble with advantages in brightness and photostability compared to Alexa Fluor®, DyLight®, and other fluorescent dyes. Learn more about CF® Dyes.

**Note:** Conjugates of blue-fluorescent dyes like CF®350, CF®405S and CF®405M are not recommended for detecting low abundance targets and may be challenging to use in tissue specimens. Blue dyes have lower fluorescence and photostability, and cells and tissue have high autofluorescence in blue wavelengths, resulting in lower signal to noise compared to other colors.

## dUTP CF® Dye Conjugates

| Product | Dye | Ex/Em | Size | SKU | Purchase |
|---|---|---|---|---|---|
| CF®405S dUTP[1] | CF®405S | 404/431 nm | 5 nmol | 40004-T | Purchase 40004-T |
| | | | 25 nmol | 40004 | Purchase 40004 |
| CF®405M dUTP | CF®405M | 408/452 nm | 5 nmol | 40100-T | Purchase 40100-T |
| | | | 25 nmol | 40100 | Purchase 40100 |
| CF®488A dUTP | CF®488A | 490/515 nm | 5 nmol | 40008-T | Purchase 40008-T |
| | | | 25 nmol | 40008 | Purchase 40008 |
| CF®543 dUTP | CF®543 | 541/560 nm | 5 nmol | 40002-T | Purchase 40002-T |
| | | | 25 nmol | 40002 | Purchase 40002 |
| CF®568 dUTP | CF®568 | 562/583 nm | 5 nmol | 40005-T | Purchase 40005-T |
| | | | 25 nmol | 40005 | Purchase 40005 |
| CF®594 dUTP | CF®594 | 593/614 nm | 5 nmol | 40006-T | Purchase 40006-T |
| | | | 25 nmol | 40006 | Purchase 40006 |
| CF®640R dUTP | CF®640R | 642/662 nm | 5 nmol | 40007-T | Purchase 40007-T |
| | | | 25 nmol | 40007 | Purchase 40007 |
| CF®680R dUTP[2] | CF®680R | 680/701 nm | 5 nmol | 40003-T | Purchase 40003-T |
| | | | 25 nmol | 40003 | Purchase 40003 |

1. CF®405S-dUTP may not be suitable for TUNEL staining in tissues due to blue autofluorescence in tissues and lower incorporation efficiency in tissue sections compared to other CF®dye dUTP conjugates. 2. CF®680R-dUTP has been tested in TUNEL staining of cells, but may not be efficiently incorporated in tissue sections.



## References

Download a list of curated CF® Dye references.