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# Transferrin (Human) CF® Dye Conjugates

Labeled human transferrin is used for microscopic studies of the endosomal pathway and/or transferrin uptake studies.

### Product attributes

| | |
|---|---|
| **Probe cellular localization** | Membrane/vesicular |
| **For live or fixed cells** | For live/intact cells |
| **Assay type/options** | Real-time imaging |
| **Detection method/readout** | Fluorescence microscopy, Flow cytometry |
| **Cell permeability** | Membrane impermeant |
| **Fixation options** | Fix before staining (formaldehyde), Fix after staining (formaldehyde), Permeabilize after staining |
| **Colors** | Green, Orange, Red, Far-red, Near-infrared |

## Product Description

Labeled human holo-transferrin is used for microscopic studies of the endosomal pathway and/or transferrin uptake. Biotium's holo-transferrin conjugates are labeled with a selection our CF™ dyes, a series of next-generation fluorescent dyes developed at Biotium to have combined advantages in brightness, photostability, and water solubility compared to other fluorescent dyes.

- Choice of 7 CF® dyes from green to near-infrared
- Superior CF® dyes are bright, photostable, and water-soluble
- For endocytosis and transferrin uptake studies

Transferrin is a glycoprotein with homologous N-terminal and C-terminal iron-binding domains that binds up to two Fe(III) atoms for delivery to vertebrate cells through receptor-mediated endocytosis. After binding to its receptor on the cell surface, transferrin is rapidly internalized by invagination of clathrin-coated pits with formation of endocytic vesicles, the acidic environment favors dissociation of iron from the transferrin-receptor complex. Following the release of iron, the transferrin is then recycled back to the surface of the cell via the endocytic recycling pathway and released to bind more iron.

### 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.

### CF® Dye Human Transferrin

| Product | Ex/Em | Size | Catalog No. |
|---|---|---|---|
| CF®488A Human Transferrin | 490/515 nm | 1 mg | Purchase 00081 |
| CF®543 Human Transferrin | 541/560 nm | 1 mg | Purchase 00082 |
| CF®568 Human Transferrin | 562/583 nm | 1 mg | Purchase 00083 |
| CF®594 Human Transferrin | 593/614 nm | 1 mg | Purchase 00084 |
| CF®640R Human Transferrin | 642/662 nm | 1 mg | Purchase 00085 |
| CF®680R Human Transferrin | 663/682 nm | 1 mg | Purchase 00086 |
| CF®750 Human Transferrin | 755/777 nm | 1 mg | Purchase 00087 |

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## References

Download a list of CF® dye references.