

## APC-Cy7 Tandem

Catalog Number: 2625

Unit Size: 1 mg

### Product Details

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Storage Conditions	Refrigerated (2-8 °C), Minimize light exposure,
Expiration Date	6 months upon receiving

### Chemical Properties

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Appearance	Solid blue
Molecular Weight	~105000
Soluble In	Water

### Spectral Properties

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Excitation Wavelength	651 nm
Emission Wavelength	779 nm

### Applications

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Allophycocyanin (APC) is a phycobiliprotein isolated from *Spirulina* sp., a blue-green alga. Like other phycobiliproteins, APC is fluorescent, with an extremely high absorptivity and a high quantum efficiency. It is a protein which can be easily linked to antibodies and other proteins by conventional protein cross-linking techniques without altering its spectral characteristics. APC-Cy7 is a popular color used in flow cytometry. Its primary absorption peak is at 651 nm with emission peak at ~780 nm. AAT Bioquest also offers a unique preactivated APC-Cy7 to facilitate the APC-Cy7 tandem conjugations to antibodies and other proteins such as streptavidin and other secondary reagents. Our preactivated APC-Cy7 tandem is ready to conjugate, giving much higher yield than the conventionally tedious SMCC-based conjugation chemistry. In addition, our preactivated APC-Cy7 tandem is conjugated to a protein via its amino group that is abundant in proteins while SMCC chemistry targets the thiol group that has to be regenerated by the reduction of antibodies.