

DABCYL-DBCOCatalog number: 2010
Unit size: 5 mg**Product Details**

Storage Conditions	Freeze (<-15 °C), Minimize light exposure
Expiration Date	12 months upon receiving

Chemical Properties

Appearance	Solid
Molecular Weight	527.63
Soluble In	DMSO

Applications

DABCYL is one of the most common dark quenchers used to prepare a variety of FRET-based nucleic acid probes and protease substrates. A dark quencher is a substance that absorbs excitation energy from a fluorophore and dissipates the energy as heat. When a dark quencher and a fluorophore are close together, such as in a molecule or protein, the fluorophore's emission is suppressed. This effect can be used to study molecular geometry and motion. DABCYL-DBCO is a convenient building block for developing FRET probes via the DBCO-based click chemistry, one of the most well-known strain-promoted azide-alkyne cycloadditions (SPAAC).