

## BAPTA DBCO

Catalog Number: 20425

Unit Size: 1 mg

### Product Details

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Storage Conditions	Freeze (< -15 °C), Minimize light exposure
Expiration Date	24 months upon receiving

### Chemical Properties

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Appearance	Solid
Molecular Weight	806.83
Soluble In	DMSO

### Spectral Properties

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Excitation Wavelength	N/A
Emission Wavelength	N/A

### Applications

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BAPTA DBCO is an excellent building block to introduce BAPTA calcium chelator into a biological molecule that contains an azido group such as azido-modified antibodies, proteins, peptides and oligos via the copper-free click chemistry. Compared to BAPTA Alkyne, BAPTA DBCO requires much milder reaction conditions with higher reaction yield. BAPTA (1,2-bis(o-aminophenoxy)ethane-N,N,N',N'-tetraacetic acid) is a common calcium-specific chelator. The presence of four carboxylic acid functional groups makes BAPTA possibly binding two calcium ions. The extensive flexibility of the carboxylate ligands is critical to the coordination of calcium and other metal ions. BAPTA is commonly used to chelate Ca<sup>2+</sup>, similarly to EGTA.